IPカラースーパー

IPCK-70H

IP COLOR SUPER

取扱説明書

このたびは、ビデオトロン製品をお買い上げいただきありがとうございました。
安全に正しくお使いいただくため、ご使用の前にこの取扱説明書を必ずお読みください。

VIDEOTRON®

この製品を安全にご使用いただくために

警告

誤った取扱いをすると死亡または重傷、火災など重大な結果を招く恐れがあります。

1）電源プラグ、コードは

・定格で定められた電源以外は使用しないでください。

・差込みは確実に。ほこりの付着やゆるみは危険です。

・濡れた手でプラグの抜き差しを行わないでください。

・抜き差しは必ずプラグを持って行ってください。コードを持って引っ張らないでください。

・電源コードは巻かずに、伸ばして使用してください。

・電源コードの上に重い物を載せないでください。

・機械の取り外しや清掃時等は必ず機械の電源スイッチを OFF にし、電源プラグを抜いてから行ってください。

2）本体が熱くなったら、焦げ臭いにおいがしたら

・すぐに電源スイッチを切ってください。電源スイッチのない機械の場合は、電源プラグを抜くなどして電源の供給を停止してください。機械の保護回路により電源が切れた場合、あるいはブザー等による警報がある場合にもすぐに電源スイッチを切るか、電源プラグを抜いてください。

・空調設備を確認してください。

・しばらくの間機械に触れないでください。冷却ファンの停止などにより異常発熱している場合があります。

・機械の通風孔をふさぐような設置をしないでください。熱がこもり異常発熱の原因になります。

・消火器の設置をお勧めします。緊急の場合に取り扱えるようにしてください。

3）修理等は、弊社サービスにお任せください

・感電・故障・発火・異常発熱などの原因になりますので、弊社サービスマン以外は分解・修理などを行わないでください。

・故障の場合は、弊社　サポートセンターへご連絡ください。

4）その他

・長期に渡ってご使用にならない時は電源スイッチを切り、安全のため電源プラグを抜いてください。

・質量のある機械は一人で持たず、複数人でしっかりと持ってください。転倒や機械の落下によりけがの原因になります。

・冷却ファンが回っている時はファンに触れないでください。ファン交換などは必ず電源を切り、停止していることを確かめてから行ってください。

・車載して使用する場合は、より確実に固定してください。転倒し、けがの原因になります。

・ラックマウントおよびラックの固定はしっかりと行ってください。地震などの災害時に危険です。

・機械内部に異物が入らないようにしてください。感電・故障・発火の原因になります。

注意

誤った取扱いをすると機械や財産の損害など重大な結果を招く恐れがあります。

1）機械の持ち運びに注意してください

・落下等による衝撃は機械の故障の原因になります。
　また、足元に落としたりしますとけがの原因になります。

2）外部記憶メディア対応の製品では

・規格に合わないメディアの使用はドライブ・コネクタの故障の原因になります。
　マニュアルに記載されている規格の製品をご使用ください。

・強い磁場がかかる場所に置いたり近づけたりしないでください。内部データに影響を及ぼす場合があります。

・湿気やほこりの多い場所での使用は避けてください。故障の原因になります。

・大切なデータはバックアップを取ることをおすすめします。

●定期的なお手入れをおすすめします

・ほこりや異物等の浸入により接触不良や部品の故障が発生します。

・お手入れの際は必ず電源を切り、電源プラグを抜いてから行ってください。
　また、電解コンデンサー、バッテリー他、長期使用劣化部品等は事故の原因につながります。
　安心してご使用していただくために定期的な（5年に一度）オーバーホール点検をおすすめします。
　期間、費用等につきましては弊社　サポートセンターまでお問い合わせください。

※上記現象以外でも故障かなと思われた場合やご不明な点がありましたら、弊社　サポートセンターまでご連絡ください。

保証規定

① 本製品の保証期間は、お買い上げ日より1年間とさせていただきます。
なお、保証期間内であっても次の項目に該当する場合は有償修理となります。

(1)ご利用者様での、輸送、移動、落下時に生じた製品破損、損傷、不具合。

(2)適切でない取り扱いにより生じた製品破損、損傷、不具合。

(3)火災、天災、設備異常、供給電圧の異常、不適切な信号入力などにより生じた破損、損傷、不具合。

(4)当社製品以外の機器が起因して当社製品に生じた破損、損傷、不具合。

(5)当社以外で修理、調整、改造が行われている場合、またその結果生じた破損、損傷、不具合。

② 保証は日本国内においてのみ有効です。【This Warranty is valid only in Japan.】

③ 修理責任免責事項について

当社の製品におきまして、有償無償期間に関わらず出来る限りご依頼に沿える修理対応を旨としておりますが、以下の項目に該当する場合はやむをえず修理対応をお断りさせていただく場合がございます。

(1)生産終了より7年以上経過した製品、及び製造から10年以上経過し、機器の信頼性が著しく低下した製品。

(2)交換の必要な保守部品が製造中止により入手不可能となり在庫もない場合。

(3)修理費の総額が製品価格を上回る場合。

(4)落雷、火災、水害、冠水、天災などによる破損、損傷で、修理後の恒久的な信頼性を保証出来ない場合。

④ アプリケーションソフトについて

(1)製品に付属しているアプリケーションは、上記規定に準じます。

(2)アプリケーション単体で販売している場合は、販売終了より3年経過した時点で、サポートを終了いたします。

※紙の保証書は廃止し、製品のシリアル番号で保証期間内外の判断をさせていただいております。

何卒、ご理解の程よろしくお願いいたします。

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1. 概　説

IPCK-70H は Vbus シリーズ筐体に実装可能な ST2110 対応のカラースーパーモジュールです。
1080i、1080p の 4:2:2/10bit フォーマットに対応します。モジュール 1 枚で、3 系統のスーパー素材を本線映像にミックスできます。入力素材が多いスタジオ番組やスポーツ中継、イベント中継に最適 な装置です。

《特　長》

✓ 1080i、1080p の 4:2:2/10bit フォーマットに対応
✓ 1 モジュールで 3 系統のスーパー入力が可能
✓ IP アドレス切替時のクリーンスイッチに対応
✓ 本線映像 2 系統入力、本線映像 2 系統出力可能　※1
✓ スーパー信号は外部/セルフに対応し、スーパーカラー、ゲイン調整が可能
✓ Key 信号の Lo/Hi クリップ調整、透過調整が可能
✓ 接点信号（オプション）、Webserver で各スーパーを個別にオン/オフ操作
✓ 本線 2 系統モード時は、各スーパーに対して ON/OFF 制御する系統（LINE1/2）を予め設定可能
✓ FILL、KEY のコンバイナーモードでアップストリームキーとして使用可能　※2
✓ IP は ST2110-20/-21/-30/-40 に対応
✓ IP は SFP コネクターを 2 系統持ち、ヒットレス（ST2022-7)に対応
✓ エンベデッドオーディオは 16ch に対応
✓ 各種設定は前面表示器、Webserver で可能
　※本機は Webserver による設定が必須となりますのでご了承ください。
✓ NMOS（IS-04、IS-05）、BMCA、IGMP V3 に対応
✓ Ethernet のリンク状況、PTP 信号の受信状況が前面 LED、表示器で確認可能
✓ 簡易エラー検出機能により前面表示器、SNMP、Webserver でエラーを通知することが可能
✓ ログ機能を搭載しており、受信状況、PTP 信号の受信状況、エラー等を記録
✓ SFP は 10Gbps モード及び 25Gbps モードの選択をディップスイッチで切り替え可能
✓ タグ VLAN を各 IP ストリーム、NMOS、PTP にそれぞれ付加することが可能

※1. 本線映像 2 系統モードで動作させた場合、OA 出力のみとなります。プレビュー出力はありません。

※2. コンバイナーモードでは OUT1 が OA FILL 出力、OUT2 が OA KEY 出力になります。コンバイナーモードではプレビュー出力はありません。

2. 機能チェックと筐体への取り付け

1. 構 成

【本体】

番号	品名	型名・規格	数量	記事
1	メインモジュール	IPCK-70H	1	
2	コネクターモジュール	IPCK-70H	1	
3	取扱説明書		1	本書

(1)メインモジュール

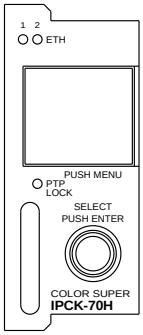


図2.1.1 外観図

(2)コネクターモジュール

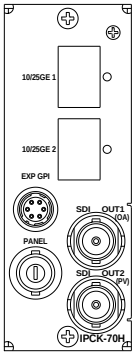


図2.1.2 コネクターモジュール背面図

【GPIO-01】(オプション)

番号	品名	型名・規格	数量	記事
1	GPIO インターフェースケーブル	GPIO-01	1	ケーブル長 150mm

【IPCK-70-03】(オプション)

番号	品名	型名・規格	数量	記事
1	3CH リモコンケーブル	IPCK-70-03	1	Dsub37 ピン(m)を XLR-3(f)コネクタ 3 個に変換するケーブルです。

【CK-70W-07】(オプション)

番号	品名	型名・規格	数量	記事
1	スプリングバック付き SW ガード	CK-70W-07	1	PRC-01 の TAKE スイッチに装着する、誤操作防用のスイッチガードです。

【PRC-01】(オプション)

番号	品名	型名・規格	数量	記事
1	1 ボタンパラレルリモートコントローラ	PRC-01	1	IPCK-70-03を使用する場合、IPCK-70Hに3個まで接続できます。

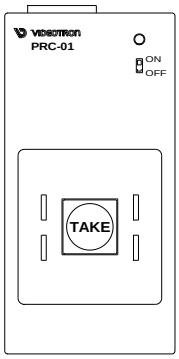


図2.1.3 1ボタンパラレルリモートコントローラ外観

2. 筐体への取り付け

ご使用の際には、コネクターモジュール及びメインモジュールを筐体に取り付けてください。

本モジュールはVbus-70シリーズでWebserverが使用可能な筐体でご使用できます。

実装方法については「Vbus-70シリーズ取扱説明書」を参照してください。

3. 機能チェック接続

1. 筐体への取り付け

ご使用の際には、メインモジュールおよびコネクターモジュールを70型筐体（Vbus-70シリーズ）に取り付けてください。詳しい実装方法については、モジュールを実装する筐体の取扱説明書をご覧ください。

2. POWERONまでの手順

(1) コネクターモジュールおよびメインモジュールを筐体へ正しくセットします。

(2) 筐体の電源プラグをAC100Vのコンセントに接続します。

(3) 10/25GE 1, 10/25GE2にIP信号を接続します。

(5) 筐体に電源スイッチを投入すると前面表示器の緑と黄のLEDが点灯しELディスプレイパネルにLOADINGと表示されます。LOADが終わるとディスプレイに各ステータスが表示されます。

3. ネットワークの確認

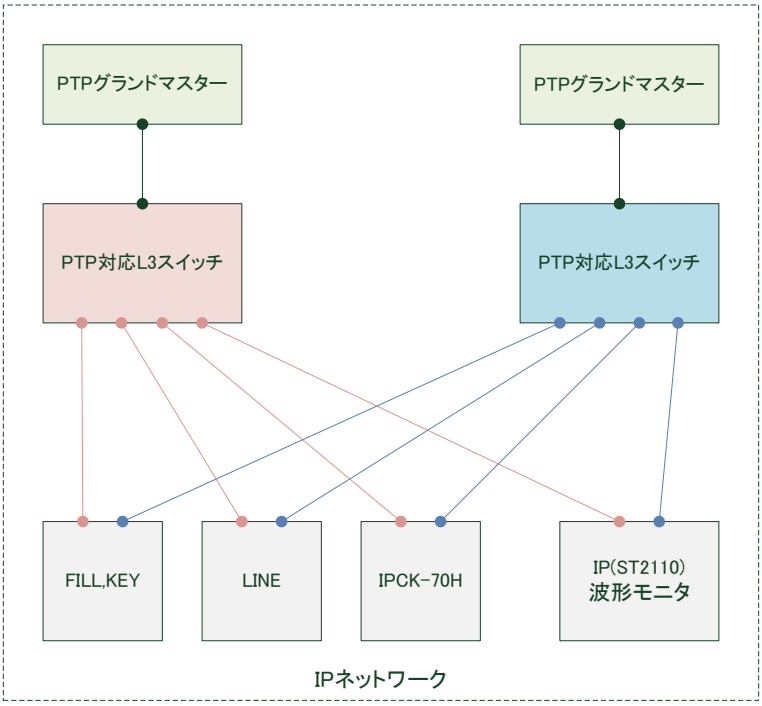


図2.3.3.1

上記図はネットワークの簡易な例です。IPCK-70Hを起動しています。

各機器のIPアドレス、ポート、PTP設定などを行います。機器自身のIP設定を行う場合、IPCK-70Hは前面表示器、Webserver、どちらでも行うことができます。

次にLINE, FILL, KEYとして受けるストリームの映像、音声、ANCのブロードキャストIPアドレス、ポート番号などを設定します。ストリームに関する設定はWebserverで行います（NMOSで設定することもできます。又、本器の制御系はインバンドです。）。IP(ST2110)波形モニタにIPCK-70Hが送信するストリームの情報を設定します。設定が正しく行われた場合、LINEにFILL, KEYがDSKされた映像をIP(ST2110)波形モニタで観測することができます。ネットワークの設計や各機器の設定の詳細は専門書をご覧ください。

3. 各部の名称と働き

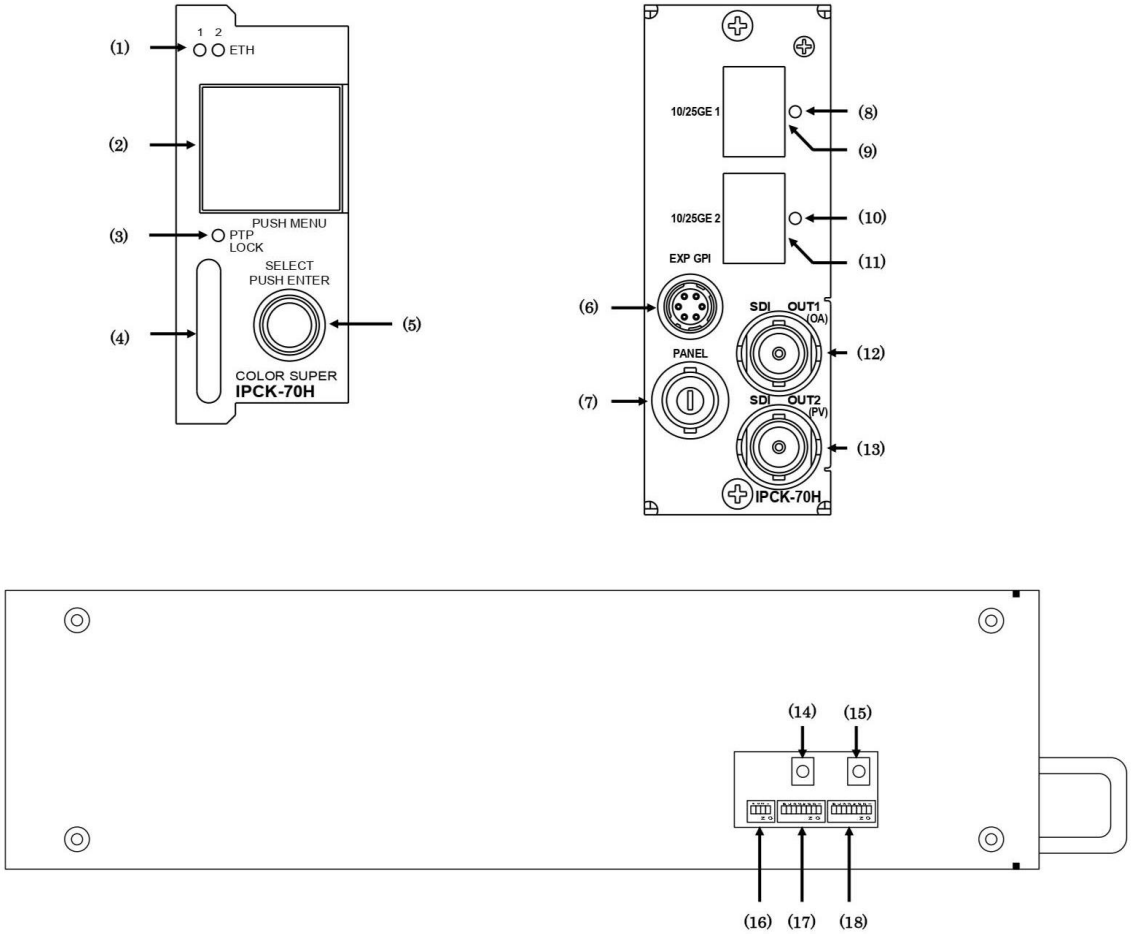


図3.1　各部の名称と働き

(1)Ethernet 物理リンクアップ ランプ

(9)(11)のSFPモジュールが物理リンクアップしたことを示す。

ランプ1は10/25GE 1を示し、ランプ2は10/25GE 2を示す。

10Gで物理リンクアップしている場合は緑色・橙色に点灯、25Gで物理リンクアップしている場合は緑色に点灯、物理リンクダウンしている場合は点滅する。

(2)ELディスプレイ/MENUスイッチ

通常時は各SFPモジュール、CHのステータスを表示するディスプレイです。スイッチ機能も兼ねており、通常時にELディスプレイパネルを押すと設定メニューの階層に入り、様々な設定行うことができます。設定メニューの階層下では、キャンセルボタン、またはメニューの階層を上がるスイッチとして機能します。

※本書内でMENUはELディスプレイのスイッチを意味します。

(3)PTP LOCKランプ

PTPがLOCK状態になる場合、緑色に点灯します。PTPがUNLOCK状態の場合、橙色に点灯します。

(4)取手

モジュールを筐体から引き抜くときに使用します。
活線挿抜に対応しています。モジュールを挿入する際は、必ず先に背面のコネクターを筐体に実装してください。

(5)ロータリースイッチ

設定メニューの階層下で項目を選択、決定する時に使用します。左右に回すと階層メニューの項目を選択、プッシュすると選択項目を決定します。

※本書内でENTERはロータリースイッチのプッシュを意味します。

※本書内でSELECTはロータリースイッチを左右に回して項目を選択する操作を意味します。

(6)EXP GPI

ビデオトロン製ケーブル　GPIO-01(オプション)を用いてGPIOとして使用。

(7)PANEL端子

未使用

(8)10/25 GE 1　物理リンクアップ ランプ

橙色　　消灯:光LOS、点灯　:光検出

緑色　　消灯:Tx側無効　、点灯:Tx側有効

(9)10/25 GE 1　SFPコネクタ

指定されたSFPモジュールを使用してください。

(10)10/25 GE 2　物理リンクアップ ランプ

橙色　　消灯:光LOS、点灯　:光検出

緑色　　消灯:Tx側無効　、点灯:Tx側有効

(11)10/25 GE 2　SFPコネクタ

指定されたSFPモジュールを使用してください。

(12)SDI端子1

SDI出力端子　SDI OUT1(OA)

(13)SDI端子2

SDI出力端子　SDI OUT2(PV)

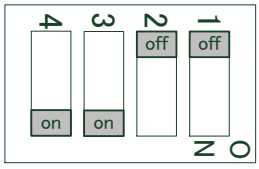
(14)タクタイルスイッチ

未使用(操作禁止)

(15)タクタイルスイッチ

未使用(操作禁止)

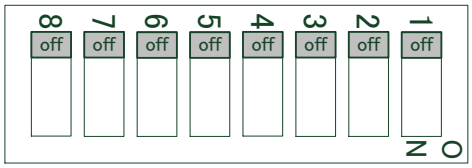
(16)BOOT MODE ディップスイッチ



1=OFF固定 ,2=OFF固定 ,3=ON固定 ,4=ON固定

※ディップスイッチは変更しないでください。

(17)PL DIPSW



1=OFF固定

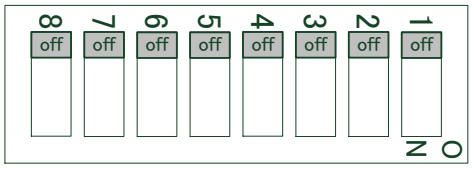
2=ON:SFPのスピードを10Gに設定 OFF:SFPのスピードを25Gに設定

3= ON:筐体からのALARM出力有効にします。OFF:ALARM出力無効にします。

4=OFF固定 ,5=OFF固定 ,6=OFF固定 ,7=OFF固定 ,8=OFF固定

※ディップスイッチは起動時に以外で変更しないでください。

(18)PS DIPSW



1= OFF固定 ,2=OFF固定 ,3=OFF固定 ,4=OFF固定 ,5=OFF固定 ,6=OFF固定 ,7=OFF固定

8= ON:起動時に設定を工場出荷時設定にします。OFF:通常起動します。

※ディップスイッチは起動時に以外で変更しないでください。

4. 操作方法

1. 基本操作

（1）電源投入後、メインモジュール正面のELディスプレイにバンド帯域、CHステータス、SFP25Gモードを表示します。SFP端子のIPの物理リンクアップステータスやPTPのロックステータをLEDで示します。詳細は「3. 各部の名称と働き （2）ELディスプレイ/MENUスイッチ」又は「4. 操作方法 」-「3. 前面表示器（ELディスプレイ）による設定」-「（4）CONFIGURATION」-「1）DISPLAY」-「・MAIN VIEW」をご覧ください。

（2）各種設定はwebserverで行いますが一部の設定において前面表示器（ELディスプレイ）で行うことができます。又、映像ストリーム、音声ストリーム、ANCストリームのIPアドレスの操作にNMOS（IS-04、IS-05準拠）を用いて設定することが可能です。

本体正面のスイッチ操作の説明をします。起動後、正面のMENUスイッチ（ELディスプレイ）を押すとELディスプレイに階層メニューが表示されます。MENUスイッチはメニュー項目のキャンセルとして機能します。ENTERスイッチ（ロータリースイッチのプッシュ）は階層メニューで選択した項目の決定として機能します。SELECTは階層メニューの項目を選択する際に使用します。全ての設定項目は次頁のメニューツリーの通りです。

2. メニューツリー

- MENU
  - SYSTEM SET …… 【SYSTEM】 システムに関する各種設定を行います。
    - PTP OFFSET — PTPのオフセット値を設定します。
      - SECONDS 【SECONDS】 秒単位
      - NANO SECONDS 【NANOSEC】 ナノ秒単位
  - DSK
    - DSK MODE …… 【DSK MODE】 DSKの動作モードを設定します。
      - DSK …… 【DSK】 LINEx2系統入力、LINEx1系統出力、プレビュー1系統出力のDSKモードです。
      - COMBINER …… 【COMBINER】 スーパーを合成して1系統のFILL/KEYを出力するコンバイナーモードです。
      - DSK+2LINE …… 【DSK_2LINE】 LINEx2系統のDSKモードです。
      - CLEAN SWITCH …… 【CLN_SW】 LINEx1系統入力、LINEx1系統出力、プレビュー1系統出力のDSKモードです。クリーンスイッチに対応します。
      - CLEAN SWITCH 2OUT … 【CLN_SW_2OT】 LINEx1系統入力、LINEx2系統のDSKモードです。クリーンスイッチに対応します。
    - SAFETY MARKER …… 【SAFETY MK】 プレビュー画面に表示するセーフティーマーカーの設定をします。
      - OFF …… 【OFF】 セーフティーマーカーを表示しません。
      - 80% …… 【80%】 80%を表示します。
      - 86% …… 【86%】 86%を表示します。
      - 90% …… 【90%】 90%を表示します。
      - 94% …… 【94%】 94%を表示します。
      - CLEAN APERTURE …… 【CLEAN AP】 CLEAN APERTUREを表示します。
      - VARIABLE …… 【VARIABLE】 任意の%のセーフティーマーカーを表示します。
    - MARKER BRIGHT …… 【MK BRIGHT】 セーフティーマーカーの輝度を8段階で調節します。
      - 0 ～ 6 ～ 7 …… 【6】 0～7の範囲で輝度を調節します。
    - MARKER VARI …… 【MK VARI】 セーフティーマーカー設定をVARIABLEにした時のマーカーサイズを調整します。
      - 20 ～ 75 ～ 99 …… 【75】 20～99%の範囲でセーフティーマーカーを設定します。

- MENU
  - NETWORK SETTINGS …… 【NETWORK】 ネットワークの設定をします。
    - INTERFACE …… 【INTERFACE】 インターフェースの選択をします。
      - ethx(nnnn) …… 【ethx】 インターフェイス名です。ethxはインターフェース名を表し、(nnnn)はVLAN名を表します。インターフェイスを追加削除することによりこの項目は増減します。
        - DHCP …… 【DHCP】 DHCPの設定をします。
          - DISABLE …… 【DISABLE】 無効にします。
          - ENABLE …… 【ENABLE】 有効にします。
        - IP ADDRESS …… 【IP ADDR】 このインターフェースのIPアドレスを設定します。
          - 0～255 …… A IPv4アドレス A.B.C.D を設定します。
          - 0～255 …… B
          - 0～255 …… C
          - 0～255 …… D
        - SUBNET MASK …… 【NETMASK】 このインターフェースのサブネットマスクを設定します。
          - IP ADDRESS設定と同等
        - BROADCAST …… 【BROADCAST】 このインターフェースのブロードキャストアドレスを設定します。
          - IP ADDRESS設定と同等
        - GATEWAY …… 【GATEWAY】 このインターフェースのゲートウェイを設定します。
          - IP ADDRESS設定と同等
        - HOSTNAME …… 【HOSTNAME】 このインターフェースのホスト名を設定します。
        - VLAN ID …… 【VLAN ID】 このインターフェースのVLAN IDを設定します。0はVLANなしを示します。
          - 0～4095
    - DOMAIN NAME …… 【DOMAIN】 ドメイン名を設定します。
      - ＊＊＊＊＊
    - PRIMARY DNS …… 【PRI DNS】 プライマリDNSを設定します。
      - IP ADDRESS設定と同等
    - SECONDARY DNS …… 【SND DNS】 セカンダリDNSを設定します。
      - IP ADDRESS設定と同等
    - NETWORK RESTART …… 【NET RESET】 ネットワークを再始動の選択をします。
      - OK …… 【OK】 ネットワークを再始動します。
      - BACK …… 【BACK】 一つ上の階層に戻ります。
      - EXIT …… 【EXIT】 メニューから抜けます。
  - CONFIGURATION …… 【CONFIG】 構成の設定をします。
    - DISPLAY …… 【DISPLAY】 ディスプレイの設定をします。
      - SCR SAVER …… 【SCR SAVER】 スクリーンセイバーの設定をします。
        - OFF …… 【OFF】 スクリーンセーバー機能を無効にします。
        - DIM 70% …… 【DIM 70%】 MAIN VIEWの表示が10分後に輝度が70%に落ちます。
        - DIM 50% …… 【DIM 50%】 MAIN VIEWの表示が10分後に輝度が50%に落ちます。
        - DIM 30% …… 【DIM 30%】 MAIN VIEWの表示が10分後に輝度が30%に落ちます。
        - NAME ROLL … 【NAME ROLL】 MAIN VIEWの表示が10分後に機種名に変わります。
      - MAIN VIEW …… 【MAIN VIEW】 メイン画面の表示を選択します。
        - CHANNEL … 【CHANNEL】 チャンネル毎のステータスを表示します。
        - SFP …… 【SFP】 SFPのステータスを表示します。
      - OSD …… 【OSD】 オンスクリーンメニューの表示設定
        - ENABLE … 【ENABLE】 有効にします。
        - DISABLE …… 【DISABLE】 無効にします。
      - OSD BRIGHT …… 【OSD BRIGHT】 オンスクリーンメニューの表示設定
        - 10% ～ 80% ～ 100%

MENU

- CONFIGURATION …… 【続き】
  - ALARM …… 【ALARM】 アラームの設定をします。
    - GE1 link …… 【GE1】 GE1 linkの有効・無効を設定します。
      - DISABLE …… 【DISABLE】 無効にします。
      - ENABLE …… 【ENABLE】 有効にします。
    - GE2 link …… 【GE2】 GE2 linkの有効・無効を設定します。
      - GE1 linkと同等
    - COOLING FAN …… 【FAN】 COOLING FANの有効・無効を設定します。
      - GE1 linkと同等
    - FCS ERROR …… 【FCS ERROR】 FCS ERROR COUNTの有効・無効を設定します。
      - GE1 linkと同等
    - PTP LOCK …… 【PTP LOCK】 PTP LOCKの有効・無効を設定します。
      - GE1 linkと同等
    - IP STREAM …… 【IP STREAM】 ST-2110 IP STREAM ERRORの有効・無効を設定します。
      - GE1 linkと同等
    - HITLESS SW …… 【HITLESS SW】 HITLESS SWITCHINGの有効・無効を設定します。
      - GE1 linkと同等
    - SYNC ERROR …… 【SYNC ERROR】 SYNCHRONIZATION ERRORの有効・無効を設定します。
      - GE1 linkと同等
    - VID FMT …… 【VID FMT】 VIDEO FORMAT ERRORの有効・無効を設定します。
      - GE1 linkと同等
    - NET BANDWD …… 【NET BANDWD】 NETWORK BAND WIDTH ERRORの有効・無効を設定します。
      - GE1 linkと同等
  - REMOTE …… 【REMOTE】 REMOTEの設定をします。
    - CONTROL …… 【CONTROL】 コントロールの設定をします。
      - OFF …… 【OFF】 OFFに設定をします。
      - ALTERNATE … 【ALTERNATE】 接点を接続、又は離したときに動作します。
      - TRIGGER …… 【TRIGGER】 接点を接続した時に動作します。
    - REMOTE IN …… 【REMOTE IN】 REMOTE INの設定をします。
      - PIN1 …… 【PIN1】 Take・Tallyリスト参照
      - PIN2 …… 【PIN2】 Take・Tallyリスト参照
      - PIN3 …… 【PIN3】 Take・Tallyリスト参照
      - PIN4 …… 【PIN4】 Take・Tallyリスト参照
      - PIN5 …… 【PIN5】 Take・Tallyリスト参照
      - PIN6 …… 【PIN6】 Take・Tallyリスト参照
      - PIN7 …… 【PIN7】 Take・Tallyリスト参照
      - PIN8 …… 【PIN8】 Take・Tallyリスト参照
    - REMOTE OUT …… 【REMOTE OUT】 REMOTE OUTの設定をします。
      - REMOTE INと同等

[Take/Tallyリスト]

	表示	表示[OSD]	
0	OFF	OFF	REMOTE入力を無効にします。
1	LINE1 SP1	LINE1 SUPER1	LINE1に対するSUPER1のTAKE制御に設定します。
2	LINE1 SP2	LINE1 SUPER2	LINE1に対するSUPER2のTAKE制御に設定します。
3	LINE1 SP3	LINE1 SUPER3	LINE1に対するSUPER3のTAKE制御に設定します。
4	LINE2 SP1	LINE2 SUPER1	LINE2に対するSUPER1のTAKE制御に設定します。
5	LINE2 SP2	LINE2 SUPER2	LINE2に対するSUPER2のTAKE制御に設定します。
6	LINE2 SP3	LINE2 SUPER3	LINE2に対するSUPER3のTAKE制御に設定します。
7	SPAL ASAL	SUPER ALL ASSIGN ALL	LINE1、2に対する全てのSUPERのTAKE制御に設定します。
8	SP1 ASAL	SUPER1 ASSIGN ALL	LINE1、2に対する SUPER1のTAKE制御に設定します。
9	SP2 ASAL	SUPER2 ASSIGN ALL	LINE1、2に対する SUPER2のTAKE制御に設定します。
10	SP3 ASAL	SUPER3 ASSIGN ALL	LINE1、2に対する SUPER3のTAKE制御に設定します。
11	SP1 AS1	SUPER1 ASSIGN1	SUPER1のASSIGN1設定に準じたTAKE制御に設定します。
12	SP1 AS2	SUPER1 ASSIGN2	SUPER1のASSIGN2設定に準じたTAKE制御に設定します。
13	SP1 AS3	SUPER1 ASSIGN3	SUPER1のASSIGN3設定に準じたTAKE制御に設定します。
14	SP1 AS4	SUPER1 ASSIGN4	SUPER1のASSIGN4設定に準じたTAKE制御に設定します。
15	SP2 AS1	SUPER2 ASSIGN1	SUPER2のASSIGN1設定に準じたTAKE制御に設定します。
16	SP2 AS2	SUPER2 ASSIGN2	SUPER2のASSIGN2設定に準じたTAKE制御に設定します。
17	SP2 AS3	SUPER2 ASSIGN3	SUPER2のASSIGN3設定に準じたTAKE制御に設定します。
18	SP2 AS4	SUPER2 ASSIGN4	SUPER2のASSIGN4設定に準じたTAKE制御に設定します。
19	SP3 AS1	SUPER3 ASSIGN1	SUPER3のASSIGN1設定に準じたTAKE制御に設定します。
20	SP3 AS2	SUPER3 ASSIGN2	SUPER3のASSIGN2設定に準じたTAKE制御に設定します。
21	SP3 AS3	SUPER3 ASSIGN3	SUPER3のASSIGN3設定に準じたTAKE制御に設定します。
22	SP3 AS4	SUPER3 ASSIGN4	SUPER3のASSIGN4設定に準じたTAKE制御に設定します。
23	TS SP1	TRANSITION MODE SUPER1	SUPER1のTRANSITION MODE の切り替え制御に設定します。
24	TS SP2	TRANSITION MODE SUPER2	SUPER2のTRANSITION MODEの切り替え制御に設定します。
25	TS SP3	TRANSITION MODE SUPER3	SUPER3のTRANSITION MODEの切り替え制御に設定します。
26	TON SP1	TRANSITION ON MODE SUPER1	SUPER1のTRANSITION ON MODEの切り替え制御に設定します。
27	TON SP2	TRANSITION ON MODE SUPER2	SUPER2のTRANSITION ON MODEの切り替え制御に設定します。
28	TON SP3	TRANSITION ON MODE SUPER3	SUPER3のTRANSITION ON MODEの切り替え制御に設定します。
29	TOFF SP1	TRANSITIONOFF MODE SUPER1	SUPER1のTRANSITION OFF MODEの切り替え制御に設定します。
30	TOFF SP2	TRANSITIONOFF MODE SUPER2	SUPER2のTRANSITION OFF MODEの切り替え制御に設定します。
31	TOFF SP3	TRANSITIONOFF MODE SUPER3	SUPER3のTRANSITION OFF MODEの切り替え制御に設定します。
32	LINE1 DIR	LINE1 DIRECT	本線映像1に入力する映像信号1/2の切り替え制御に設定します。
33	LINE2 DIR	LINE2 DIRECT	本線映像2に入力する映像信号1/2の切り替え制御に設定します。
34	SP1 SELKY	SUPER1 SELFKEY	SUPER1のセルフキーオン/オフの切り替え制御に設定します。
35	SP1 SELKY	SUPER2 SELFKEY	SUPER2のセルフキーオン/オフの切り替え制御に設定します。
36	SP1 SELKY	SUPER3 SELFKEY	SUPER3のセルフキーオン/オフの切り替え制御に設定します。
37	SPAL SELKY	SUPER ALL SELFKEY	全てのSUPERのセルフキーオン/オフの切り替え制御に設定します。
38	CUT SAL	CUT SUPER ALL ASSIGN ALL	全てのSUPERのTRANSITION MODEのCUTに切り替え、LINE1、2に対する全てのSUPERのTAKE制御に設定します。
39	CUT SP1	CUT SUPER1 ASSIGN ALL	SUPER1のTRANSITION MODEのCUTに切り替え、およびLINE1、2に対するSUPER1のTAKE制御に設定します。
40	CUT SP2	CUT SUPER2 ASSIGN ALL	SUPER2のTRANSITION MODEのCUTに切り替え、およびLINE1、2に対するSUPER2のTAKE制御に設定します。
41	CUT SP3	CUT SUPER3 ASSIGN ALL	SUPER3のTRANSITION MODEのCUTに切り替え、およびLINE1、2に対するSUPER3のTAKE制御に設定します。
42	FADE SAL	FADE SUPER_ALL ASSIGN ALL	全てのSUPERのTRANSITION MODEのFADEに切り替え、LINE1、2に対する全てのSUPERのTAKE制御に設定します。
43	FADE SP1	FADE SUPER1 ASSIGN ALL	SUPER1のTRANSITION MODEのFADEに切り替え、およびLINE1、2に対するSUPER1のTAKE制御に設定します。
44	FADE SP2	FADE SUPER2 ASSIGN ALL	SUPER2のTRANSITION MODEのFADEに切り替え、およびLINE1、2に対するSUPER2のTAKE制御に設定します。
45	FADE SP3	FADE SUPER3 ASSIGN ALL	SUPER3のTRANSITION MODEのFADEに切り替え、およびLINE1、2に対するSUPER3のTAKE制御に設定します。

MENU

- CONFIGURATION …… 【続き】
  - DATE TIME …… 【DATE TIME】 日時の設定をします。
    - DATE …… 【DATE】 日付の設定をします。
      - YYYY/MM/DD
    - TIME …… 【TIME】 時間の設定をします。
      - hh:mm:ss
  - PRESET …… 【PRESET】 プリセットの設定をします。
    - LOAD …… 【LOAD】 プリセットをロードします。
      - PRESET1…… 【PRESET1】 プリセット1を選択します。
        - OK …… 【OK】 ロードします。
        - CANSEL… 【CANSEL】 ロードをキャンセルします。
      - PRESET2…… 【PRESET2】 プリセット2を選択します。
        - PRESET1と同等
      - PRESET3…… 【PRESET3】 プリセット3を選択します。
        - PRESET1と同等
      - PRESET4…… 【PRESET4】 プリセット4を選択します。
        - PRESET1と同等
      - PRESET5…… 【PRESET5】 プリセット5を選択します。
        - PRESET1と同等
      - PRESET6…… 【PRESET6】 プリセット6を選択します。
        - PRESET1と同等
      - PRESET7…… 【PRESET7】 プリセット7を選択します。
        - PRESET1と同等
      - PRESET8…… 【PRESET8】 プリセット8を選択します。
        - PRESET1と同等
    - SAVE …… 【SAVE】 プリセットをセーブします。
      - LOADと同等
  - INITIAL RESET …… 【INIT RESET】 将来拡張　設定のリセット　※ネットワーク設定、WebServerパスワード以外のリセット
    - OK …… 【OK】 初期化リセットを実行します。
    - CANSEL …… 【CANSEL】 初期化リセットをキャンセルします。
- INFORMATION …… 【INFO】 情報
  - VERSION …… 【VERSION】 バージョン情報です。
    - SOFT …… 【SOFT】 SOFTバージョン情報です。
      - XX.XX.XX XX.XX.XXは本モジュールのバージョン
    - HARD …… 【HARD】 HARDバージョン情報です。
      - XX.XX.XX XX.XX.XXは本モジュールのバージョン
    - GENLOCK …… 【GENLOCK】 GENLOCKバージョン情報です。
      - XX.XX.XX XX.XX.XXは本モジュールのバージョン
  - NETWORK …… 【NETWORK】 ネットワーク情報です。
    - eth0 …… 【eth0】 eth0の情報です。
      - MAC ADDRESSの表示
      - IP ADDRESSの表示
      - NET MASKの表示
      - BROADCASTの表示
      - GATEWAYの表示
      - HOSTNAMEの表示
      - FQDNの表示
      - VLAN IDの表示
    - eth1 …… 【eth1】 eth1の情報です。
      - eth0と同等
  - SFP …… 【SFP】 SFP情報です。
    - SFP1 …… 【SFP1】 SFP1の情報です。
    - SFP2 …… 【SFP2】 SFP2の情報です。

3. 前面表示器(EL ディスプレイ)による設定

本器の設定は webserver で行いますが一部の設定に関しまして前面表示器(EL ディスプレイ)で行うことができます。

（1）SYSTEM

ELディスプレイを押すと、ELディスプレイ上に下図の「図4.3.1.1　メインメニュー階層」が表示されます。更に、ロータリースイッチでSYSTEMを選択し、ロータリースイッチを押すと、下図の「図4.3.1.2　SYSTEM階層」が表示されます。本書ではこの様な操作手順を”MENU→SYSTEM”と表現し、SYSTEM階層と呼びます。

SYSTEM階層では、PTPオフセットに関する設定を行います。

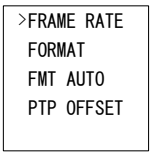


図4.3.1.1 メインメニュー階層　　図4.3.1.2　SYSTEM階層

1）PTP OFFSET

PTP OFFSET階層では、秒単位とナノ秒単位の設定ができ、PTP時間にオフセット時間を加えることができます。設定したい単位を選択しオフセット値を設定してください。

図4.3.1.3　PTP OFFSET階層

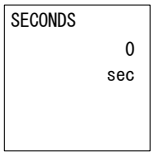


図4.3.1.4　SECONDS階層

（2）DSK

MENU→DSKを選択するとDSKの階層メニューが表示されます。

この階層ではDSKに関する設定を行います。

図4.3.2.1 DSK階層

DSK階層項目一覧

・DSK MODE
・SAFETY MARKR
・MARKER BRIGHT
・MARKER VARIABLE

1） DSK MODE

図4.3.2.2 DSK MODE階層

DSK MODEを選択します。

・DSK
LINEx2系統入力、LINEx1系統出力、プレビュー1系統出力のDSKモードです。
・COMBINER
スーパーを合成して1系統のFILL/KEYを出力するコンバイナーモードです。
・DSK 2LINE
LINE2系統出力のDSKモードです。
・CLEAN SWITCH
LINEx1系統入力、LINEx1系統出力、プレビュー1系統出力のDSKモードです。
クリーンスイッチに対応します。
・CLEAN SWITCH 2OUT
LINEx1系統入力、LINEx2系統のDSKモードです。クリーンスイッチに対応します。

2) SAFETY MK

図4.3.2.3 SAFETY MK階層

プレビュー画面に設定するセーフティーマーカーの設定をします。

・OFF

セーフティーマーカーを表示しません。

・80%

80%のセーフティーマーカーを表示します。

・86%

86%のセーフティーマーカーを表示します。

・90%

90%のセーフティーマーカーを表示します。

・94%

94%のセーフティーマーカーを表示します。

・CLEAN AP

CLEAN APERTUREのセーフティーマーカーを表示します。

・VARIABLE

20～90%の範囲で任意のセーフティーマーカーを表示します。

マーカーのサイズの調整はVARIABLEで行います。

3) MK BRIGHT

図4.3.2.4 MK BRIGHT階層

セーフティーマーカーの輝度を 8 段階で調節します。

4) MK VARIABLE

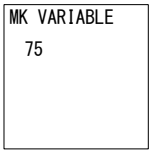


図4.3.2.5 MK VARIABLE階層

20～99%の範囲でセーフティーマーカーを設定します。

（3）NETWORK

MENU→NETWORKを選択するとNETWORKの階層メニューが表示されます。

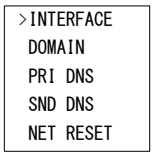


図 4.3.3.1 NETWORK 階層

NETWORK階層項目一覧

・INTERFACE
・DOMAIN
・PRIMARY DNS
・SECONDARY DNS
・NET REST

1） INTERFACE

図4.3.3.2 INTERFACE階層

設定するINTERFACEを選択します。

図4.3.3.3 eth0階層

eth0を選択するとeth0のインターフェース設定ができます。eth1も同様の操作になります。

・DHCP
　DHCPの有効・無効を設定することができます。
・IP ADDR
　IP ADDRESSを設定することができます。
・NETMASK
　サブネットマスクを設定することができます。
・BROADCAST
　ブロードキャストアドレスを設定することができます。
・GATEWAY
　ゲートウェイを設定することができます。
・HOST NAME
　ホスト名を設定することができます。
・VLAN ID
　VLAN IDを設定することができます。

2） DOMAIN

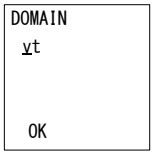


図4.3.3.4 DOMAIN階層

DOMAIN名を設定します。DOMAIN名を書き終わったらOKを実行します。

3） PRIMARY DNS

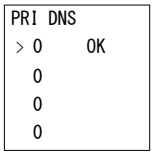


図4.3.3.5 PRIMARY DNS階層

PRIMARY DNSのIPアドレスを設定します。設定が終わったらOKを実行します。

4） SECONDARY DNS

図4.3.3.6 SECONDARY DNS階層

SECONDARY DNSのIPアドレスを設定します。設定が終わったらOKを実行します。

5） NET REST

図4.3.3.7 NET REST階層

OKを実行するとネットワークがリセットされモジュールが再起動します。BACKを実行すると階層が1つ戻ります。EXITを実行するとメニューモードから抜けます。
※NETWORKのパラメータを変更した後、NETWORK階層を抜ける場合にもこの画面が表示されます。

（4）CONFIGURATION

MENU→CONFIGを選択するとCONFIGの階層メニューが表示されます。

図 4.3.4.1 CONFIG 階層

CONFIG階層項目一覧

・DISPLAY
・ALARM
・REMOTE
・DATE TIME
・PRESET
・INITIAL RESET

1）DISPLAY

図 4.3.4.2 CONFIG 階層

・SCR SAVER

MENU→CONFIG→SCR SAVERを選択するとSCR SAVERの階層メニューが表示されます。

SCR SAVERの階層ではスクリーンセーバーに関する設定を行います。

図 4.3.4.3 SCR SAVER 階層

SCR SAVER階層項目一覧

・OFF
・DIM 70%
・DIM 50%
・DIM 30 %
・NAME ROLL

任意の項目にロータリースイッチを回し「>」を合わせ、ロータリースイッチを押すと反映されます。

①OFF

スクリーンセーバーをOFFに設定します。

②DIM 70%

スクリーンセーバーが起動した時、明るさを70%にします。

③DIM 50%

スクリーンセーバーが起動した時、明るさを50%にします。

④DIM 30%

スクリーンセーバーが起動した時、明るさを30%にします。

⑤NAME ROLL

スクリーンセーバーが起動した時、「IPCK-70H」の文字を右上方向に流す画面をELディスプレイに映します。

・MAIN VIEW

MENU→CONFIG→MAIN VIEWを選択するとMAIN VIEWの階層メニューが表示されます。

図4.3.4.4 MAIN VIEW階層

MENU画面を選択することができます。

各項目を選択した場合のMENU画面を説明します。

CHANNEL

MENU画面でBAND EIDTHとSDIのチャンネルステータスが確認できます。

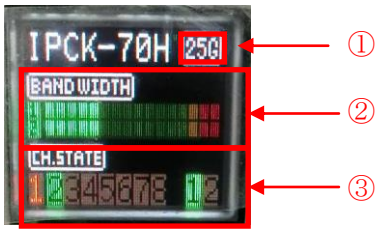


図 4.3.4.5

①イーサーの帯域を示します。 25G:25G(SFP28)を示します。 10G:10G(SFP+)を示します。

②SFP の帯域を示します。1:GE1　2:GE2

③チャンネルステータスを表します。数字はチャンネルを表します。正しくエンコード、又はデコードを行っている時は緑、エンコード、デコードを行っていない場合は黒、エラーがある場合は赤で表示されます。

SFP

MENU画面でBAND EIDTHとRXの光信号強度を確認できます。

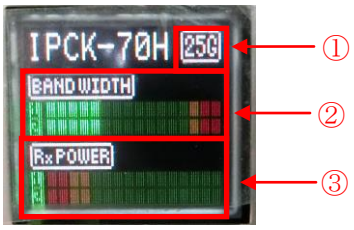


図 4.3.4.6

①、②に関しては「CHANNEL」設定を同じです。

③光の受光レベルをチャンネル毎に示します。緑以外になった場合、光ファイバーの損傷、SFP モジュールの経年劣化等が疑われます。

・OSD

MENU→CONFIG→OSDを選択するとOSDの階層メニューが表示されます。

図 4.3.4.7 OSD 階層

OSD の有効・無効を選択します。

・OSD BRIGHT

MENU→CONFIG→OSD BRIGHTを選択するとOSDの階層メニューが表示されます。

図4.3.4.8 OSD BRIGHT階層

10%～100%で明るさを設定できます。初期値は 80%です。

2）ALARM

MENU→CONFIG→ALARMを選択するとALARMの階層メニューが表示されます。

ALARMの階層ではアラームに関する設定を行います。

各エラーに関して有効・無効設定をし通知するエラーを選択してください。

図 4.3.4.9 ALARM 階層 （項目は画面に入りきらない）

ALARM階層項目一覧

・GE1 link
・GE2 link
・FAN
・FCS ERROR
・PTP LOCK
・IP STREAM
・HITLESS SW
・SYNC ERROR
・VID FMT
・NET BANDWD

①GE 1 link

10/25GE1ポートの物理リンクアップ、リンクダウンした場合通知する。

図 4.3.4.10 GE1 階層

ロータリースイッチで「>」を動かし有効であったらENABLE、無効であたらDISABLEを選びロータリースイッチを押すと決定する。

②GE 2 link

10/25GE2ポートの物理リンクアップ、リンクダウンした場合通知する。

①と同等の設定方法です。

③FAN

FANの回転数が低下した場合、通知するアラームです。

①と同等の設定方法です。

④FCS ERROR

イーサーフレームのCRCであるFCSエラーのアラームです。

①と同等の設定方法です。

⑤PTP LOCK

PTP LOCKが外れた場合のアラームです。

⑥IP STREAM

RTPパケットの受信カウンタ値に変化がない時のアラームです。

⑦HITLESS SW

ヒットレススイッチでGE1かGE2どちらも有効でなくなった場合のアラームです。

⑧SYNC ERROR

RTPパケットの同期がとれない時のアラームです。

⑨VID FMT

Frame rate設定と映像フォーマットが非対応であった場合エラーとする。

⑩NET BANDWD

SFPの入出力のデータ帯域が規定値を超えていることを示します。

3）ROMOTE

MENU→CONFIG→REMOTEを選択するとREMOTEの階層メニューが表示されます。

図 4.3.4.11 REMOTE 階層

REMOTE階層項目一覧

・CONTROL

・REMOTE IN

・REMOTE OUT

・CONTCOL

MENU→CONFIG→REMOTE→CONTOLを選択するとCONTROLの階層メニューが表示されます。

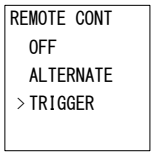


図4.3.4.12 CONTOL階層

・OFF

REMOTE　外部接点制御を禁止します。

・ALTERNATE

接点制御をオルタネイト制御します。メイクしている間、スーパーON します。

オープンでスーパーOFF します。

・TRIGGER

接点制御をトリガー制御します。接点をメイクすることで、スーパーON もう一度メイクすることで

スーパーOFF し ます。

【接点制御について】

下図はオルタネイト制御、トリガー制御の動作を示す概略図です。

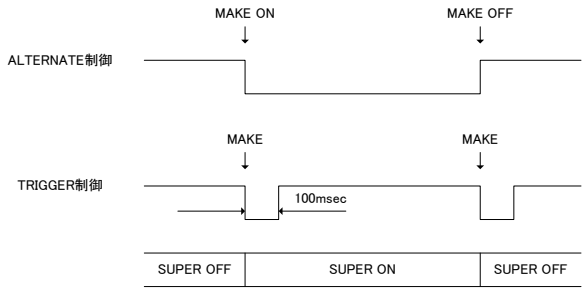


図 4.3.4.13

厳密なタイミング制御を行う場合は下記のタイミングチャートに従ってください。

100ms 以上を推奨しておりますが実際は VD 動作します。

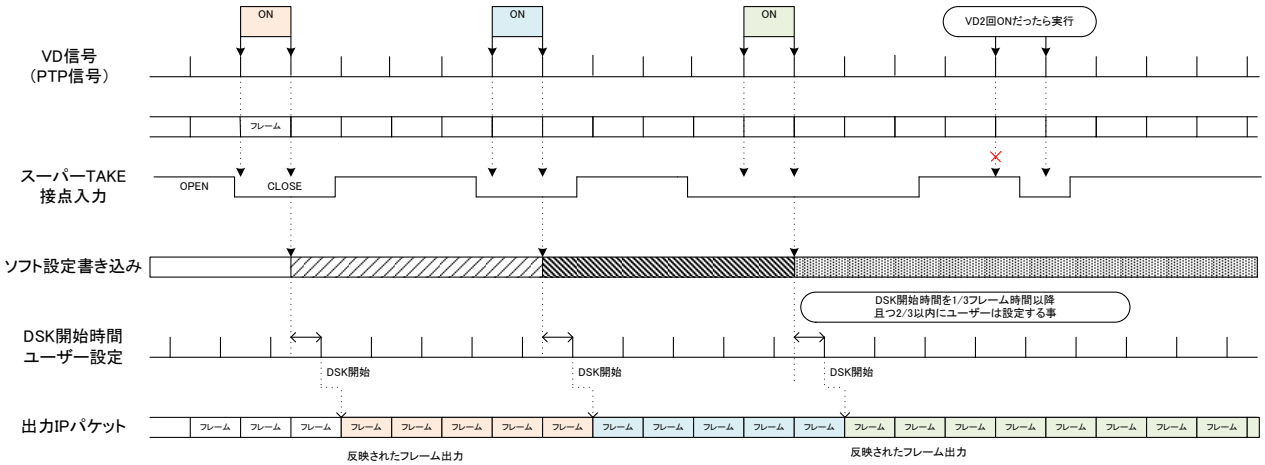


図 4.3.4.14

・REMOTE IN

MENU→CONFIG→REMOTE→REMOTE INを選択するとREMOTE INの階層メニューが表示されます。

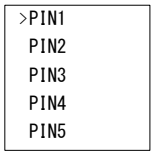


図4.3.4.15 REMOTE IN階層

・PIN1～PIN8

Take/Tally リストの詳細はメニューツリーを参照してください。

・REMOTE OUT

MENU→CONFIG→REMOTE→REMOTE OUTを選択するとREMOTE OUTの階層メニューが表示されます。

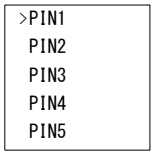


図4.3.4.16 REMOTE OUT階層

・PIN1～PIN8

Take/Tally リストの詳細はメニューツリーを参照してください。

4）DATE TIME

MENU→CONFIG→DATE TIMEを選択するとDATE TIMEの階層メニューが表示されます。

図 4.3.4.17 DATE TIME 階層

DATE TIME階層項目一覧

・DATE

・TIME

・DATA

MENU→CONFIG→DATE TIME→DATEを選択するとDATEの階層メニューが表示されます。

図4.3.4.18 DATE階層

日付を設定し、OK を実行すると日付が更新されます。

・TIME

MENU→CONFIG→DATE TIME→TIMEを選択するとTIMEの階層メニューが表示されます。

図4.3.4.19 TIME階層

時間を設定し、OK を実行すると時間が更新されます。

5）PRESET

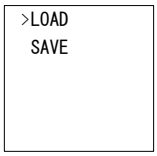


図 4.3.4.20 PRESET 階層

プリセットは全てで 8 つセーブすることができます。

又、設定したプリセットをロードすることができます。

ロード後、再起動をします。

6）INIT RESET

図 4.3.4.21 INIT RESET 階層

初期化リセットを行います。ロータリースイッチで「>」を「OK」に選択しそータリースイッチを押すと初期化します。

「CANCEL」を実行すると一つ上の階層にも戻ります。

（5）INFORMATION

MENU→INFOを選択するとINFORMATIONの階層メニューが表示されます。
INFORMATIONの階層ではモジュールの情報を参照することができます。

図 4.3.5.1 INFORMATION 階層

INFORMATION階層項目一覧

・VERSION
・NETWORK
・SFP

1）VERSION

MENU→INFO→VERSION を選択するとバージョン情報を見ることができます。ロータリースイッチを回すと情報を得ることができます。

・SOFT VERSION
・HARD VERSION
・GENLOCK VERSION

2）NETWORK

MENU→INFO→NETWORK→インターフェース名を選択するとインターフェースの情報を見ることができます。
ロータリースイッチを回すと情報を得ることができます。

・MAC ADDRESS
・IP ADDRESS
・NET MASK(サブネットマスク)
・BROADCAST（ブロードキャストアドレス）
・GATEWAY（デフォルトゲートウェイ）
・HOSTNAME（ホスト名）
・FQDN（ドメイン名）
・VLAN ID

3）SFP

MENU→INFO→SFP→SFP1 又はSFP2を選択すると選択したSFPの情報を見ることができます。
ロータリースイッチを回すと情報を得ることができます。

・temp：温度
・vol：電圧
・cur：電流
・Tx：送信光レベル
・Rx：受信光レベル

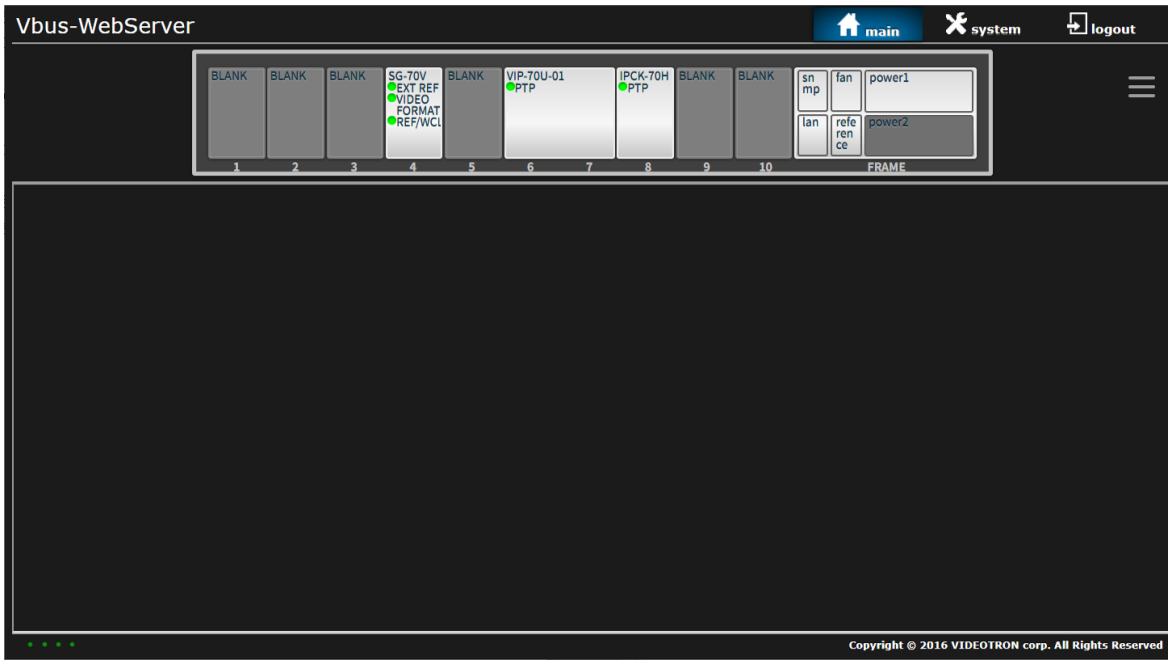
4.Webserver による設定

Vbus-70V2 をご購入されますと付属の Webserver 機能を使用することができ、操作や監視が行えます。

（WebServer のバージョンは Ver01.03.42 R00 以降をご使用ください。それ以前のバージョンですと一部の機能が使えない場合がございます。） インターネット接続や、基本操作部分は WebServer 対応オプション取扱説明書を参照ください。

又、Vbus-74HC をご使用の場合はオプションで Webserver を購入される必要があります。

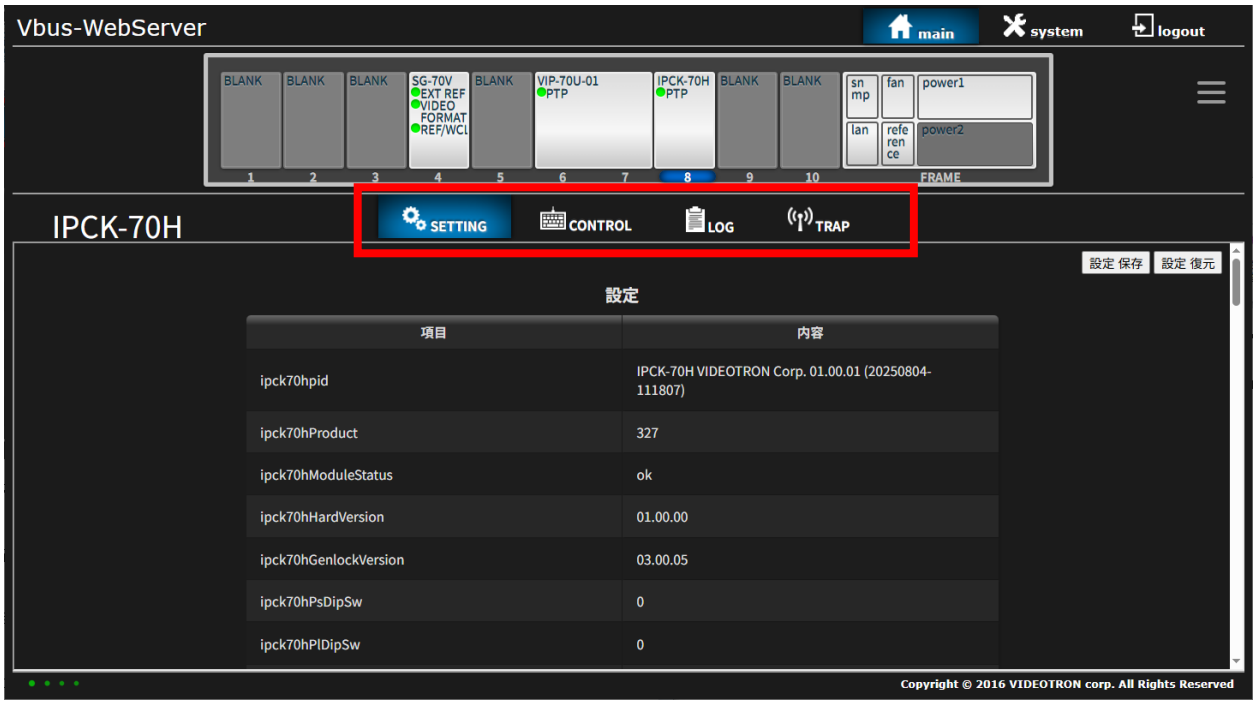
Webserver を開きますと下図のような画面が表示されます。



（お客様の環境によっては表示される内容が異なります。）

上記画面が表示されましたら、有効な本製品、IPCK-70H のスロットをクリックしてください。

クリックしますと、本製品用のメニューが開きます。



本製品のモジュールメニュー(赤枠)は下記の項目になります。

・(1)SETTING

本製品の SNMP 項目の設定と設定の保存と復元が行えます。

・(2)CONTROL

本製品をWebブラウザー画面からの制御が行えます。

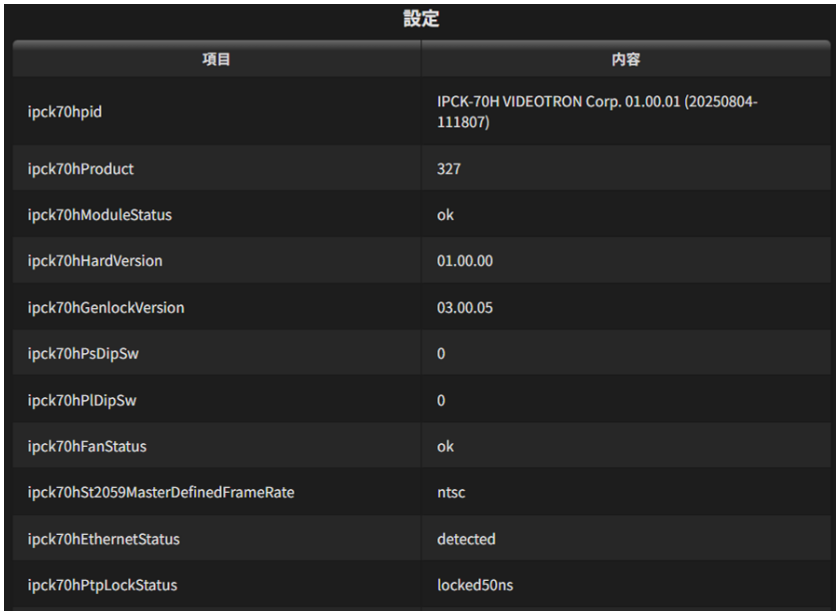
・(3)LOG

本製品の Web ブラウザー画面からのログの表示が行えます。

・(4)TRAP

本製品の TRAP 発行の設定とメール通知の設定が行えます。

1.SETTING



設定

項目	内容
ipck70hpid	IPCK-70H VIDEOTRON Corp. 01.00.01 (20250804-111807)
ipck70hProduct	327
ipck70hModuleStatus	ok
ipck70hHardVersion	01.00.00
ipck70hGenlockVersion	03.00.05
ipck70hPsDipSw	0
ipck70hPlDipSw	0
ipck70hFanStatus	ok
ipck70hSt2059MasterDefinedFrameRate	ntsc
ipck70hEthernetStatus	detected
ipck70hPtpLockStatus	locked50ns

下記に項目と内容を表にします。

項番(OID)	項目	内容
1	ipck70hpid	プログラム情報
3	ipck70hProduct	機種コード
21	ipck70hModuleStatus	モジュールの状態を通知します。 1= DipSw No.8 の初期化が有効
40	ipck70hHardVersion	FPGA1 のバージョン情報 bit0～31:FPGA バージョン情報
41	ipck70hGenlockVersion	ゲンロック FPGA のバージョン情報（アスキーコード）
1000	ipck70hPsDipSw	基板上の PS ディップスイッチステータス Bit0～7:0=OFF 1=ON
1001	ipck70hPlDipSw	基板上の PL ディップスイッチステータス Bit0～7:0=OFF 1=ON
1002	ipck70hFanStatus	FAN の回転数 通常時の 70%を下回った時点で異常となります。 0 = FAN が正常 1 = FAN に異常を検知
1003	ipck70hSt2059MasterDefinedFrameRate	ST-2059 基準フレームレート 0 = NTSC(59.94Hz) 1 = PAL(50Hz/60Hz)
1004	ipck70hEthernetStatus	イーサーネットのステータスを表示 0 = GE1、GE2 共にリンクを検出 1 = GE1 のリンクが未検出 2 = GE2 のリンクが未検出 3 = GE1、GE2 のリンクが未検出

1005	ipck70hPtpLockStatus	PTP のロック状態を通知します。 0 = Locked_50ns. 1 = Locked_100ns. 2 = Locked_200ns. 3 = Locked_500ns. 4 = Unlocked
1007	ipck70hHitlessSwitching	Hitless switching の状態を通知します。 0 =未稼働 3 = GE1, GE2 共に稼働
1008	ipck70hSystemAlarmStatus	ネットワークの使用帯域(1/100000)を取得します。 ※各チャンネルの設定で使用されるネットワークの帯域
1009	ipck70hSfp1MacAddress	Enc の PTP に対する SDI VIDEO INPUT の位相(ns)を表示します。
1010	ipck70hSfp2MacAddress	システムアラームの状態を表示(HEX)します。 0=正常時 1=異常時 Bit1 : Ethernet1 Link アラーム Bit2 : Ethernet2 Link アラーム Bit3 : Tip cooling FAN アラーム Bit4 : FCS error count アラーム Bit5 : 未使用 Bit6 : Rx power level アラーム Bit7 : PTP lock アラーム Bit8 :未使用 Bit9 :未使用 Bit10 :未使用 Bit11 : IP Stream アラーム Bit12 : Hitless sw アラーム Bit13 : Stream Synchronization アラーム Bit14 : SDI video format アラーム Bit15 :未使用 Bit16 : Net bandwidth アラーム Bit17 :未使用
1011	ipck70hSfp1IpAddress	SFP1 の Mac address を取得します。
1012	ipck70hSfp2IpAddress	SFP2 の Mac address を取得します。
1013	ipck70hSfp1SubnetMask	SFP1 の現在有効な IP address を取得します。
1014	ipck70hSfp2SubnetMask	SFP2 の現在有効な IP address を取得します。
1015	ipck70hSfp1Gateway	SFP1 の現在有効な subnet mask を取得します。
1016	ipck70hSfp2Gateway	SFP2 の現在有効な subnet mask を取得します。
1017	ipck70hSfp1NetworkBandwidth	SFP1 の現在有効な Gateway を取得します。
1018	ipck70hSfp2NetworkBandwidth	SFP2 の現在有効な Gateway を取得します。
1019	ipck70hSfp1Status	SFP1 の状態をビット(HEX)で取得します。 Bit0 : TX disable 0=ENABLE 1=DISABLE Bit1～2 : Rate select 3=25Gbps 0=10Gbps Bit5 : Module absent. 0=OK 1=NONE Bit6 : Receiver loss of signal indication. 0=Hi level 1=Low level Bit7 : Transmitter fault. 0=NO ERROR 1=ERROR

1020	ipck70hSfp1AlarmStatus	SFP1 のアラーム状態をビット(HEX)で取得します。 Bit6 : RX POWER LOW ALARM Bit7 : RX POWER HIGH ALARM Bit8 : TX POWER LOW ALARM Bit9 : TX POWER HIGH ALARM Bit10 : TX BIAS LOW ALARM Bit11 : TX BIAS HIGH ALARM Bit12 : VCC LOW ALARM Bit13 : VCC HIGH ALARM Bit14 : TEMP LOW ALARM Bit15 : TEMP HIGH ALARM
1021	ipck70hSfp1WarningStatus	SFP1 のワーニング状態をビット(HEX)で取得します。 Bit6 : RX POWER LOW WARNING Bit7 : RX POWER HIGH WARNING Bit8 : TX POWER LOW WARNING Bit9 : TX POWER HIGH WARNING Bit10 : TX BIAS LOW WARNING Bit11 : TX BIAS HIGH WARNING Bit12 : VCC LOW WARNING Bit13 : VCC HIGH WARNING Bit14 : TEMP LOW WARNING Bit15 : TEMP HIGH WARNING
1022	ipck70hSfp1MonitoringTemp	SFP1 のトランシーバー温度の値(1/100000)を取得します。 - 128 ° C ～ +128 ° C (± 3° C)
1023	ipck70hSfp1MonitoringVoltage	SFP1 のトランシーバー電源電圧の値(1/100000)を取得します。 0 ～ +6.55 V (±100mV)
1024	ipck70hSfp1MonitoringTxBias	SFP1 の TX バイアス電流の値(1/100000)を取得します。 0 ～ 131 mA (±10%)
1025	ipck70hSfp1MonitoringTxPower	SFP1 の TX 出力電力の測定値の値(1/100000)を取得します。 -40 ～ +8.2 dBm (±3dB)
1026	ipck70hSfp1MonitoringRxPower	SFP1 の RX 受信平均光パワーの値(1/100000)を取得します。 -40 ～ +8.2 dBm (±3dB)
1027	ipck70hSfp2Status	SFP2 の状態をビット(HEX)で取得します。 Bit0 : TX disable 0=ENABLE 1=DISABLE Bit1～2 : Rate select 0=25Gbps 3=10Gbps Bit5 : Module absent. 0=OK 1=NONE Bit6 : Receiver loss of signal indication. 0=Hi level 1=Low level Bit7 : Transmitter fault. 0=NO ERROR 1=ERROR
1028	ipck70hSfp2AlarmStatus	SFP2 のアラーム状態をビット(HEX)で取得します。 Bit6 : RX POWER LOW ALARM Bit7 : RX POWER HIGH ALARM Bit8 : TX POWER LOW ALARM Bit9 : TX POWER HIGH ALARM Bit10 : TX BIAS LOW ALARM Bit11 : TX BIAS HIGH ALARM Bit12 : VCC LOW ALARM Bit13 : VCC HIGH ALARM Bit14 : TEMP LOW ALARM Bit15 : TEMP HIGH ALARM

1029	ipck70hSfp2WarningStatus	SFP2 のワーニング状態をビット(HEX)で取得します。 Bit6 : RX POWER LOW WARNING Bit7 : RX POWER HIGH WARNING Bit8 : TX POWER LOW WARNING Bit9 : TX POWER HIGH WARNING Bit10 : TX BIAS LOW WARNING Bit11 : TX BIAS HIGH WARNING Bit12 : VCC LOW WARNING Bit13 : VCC HIGH WARNING Bit14 : TEMP LOW WARNING Bit15 : TEMP HIGH WARNING
1030	ipck70hSfp2MonitoringTemp	SFP2 のトランシーバー温度の値(1/100000)を取得します。 - 128 ° C ～ +128 ° C (± 3° C)
1031	ipck70hSfp2MonitoringVoltage	SFP2 のトランシーバー電源電圧の値(1/100000)を取得します。 0 ～ +6.55 V (±100mV)
1032	ipck70hSfp2MonitoringTxBias	SFP2 の TX バイアス電流の値(1/100000)を取得します。 0 ～ 131 mA (±10%)
1033	ipck70hSfp2MonitoringTxPower	SFP2 の TX 出力電力の測定値の値(1/100000)を取得します。 -40 ～ +8.2 dBm (±3dB)
1034	ipck70hSfp2MonitoringRxPower	SFP2 の RX 受信平均光パワーの値(1/100000)を取得します。 -40 ～ +8.2 dBm (±3dB)
1035	ipck70hPtpCurrentTimeInstance	PTP の現在の時刻を取得します。 1970年1月1日午前0時0分0秒からの秒数です。(UNIX時刻)
1036	ipck70hPtpMasterClockId	PTP のマスタークロック ID を取得します。
1100	ipck70hLine1InUsedStatus	Line1 in の有効・無効状態を通知します。 0 = 無効 1 = 有効
1101	ipck70hLine1InDetectedFormat	Line1 in で検出されたフォーマット ※フォーマットステータス表を参照
1102	ipck70hLine1InSt2110Status	Line1 in の ST-2110 の稼働状態を通知 (1 ビット単位のビットフラグ) 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中
1103	ipck70hLine1InSynchronizationStatus	Line1 in のデータ入力への同期ステータス 0 = 非同期 1 = 同期中 Video.Audio,Anc いずれかが synchronization 状態になっていれば同期中となります。
1110	ipck70hLine2InUsedStatus	Line2 in の有効・無効状態を通知します。 0 = 無効 1 = 有効
1111	ipck70hLine2InDetectedFormat	Line2 in で検出されたフォーマット ※フォーマットステータス表を参照

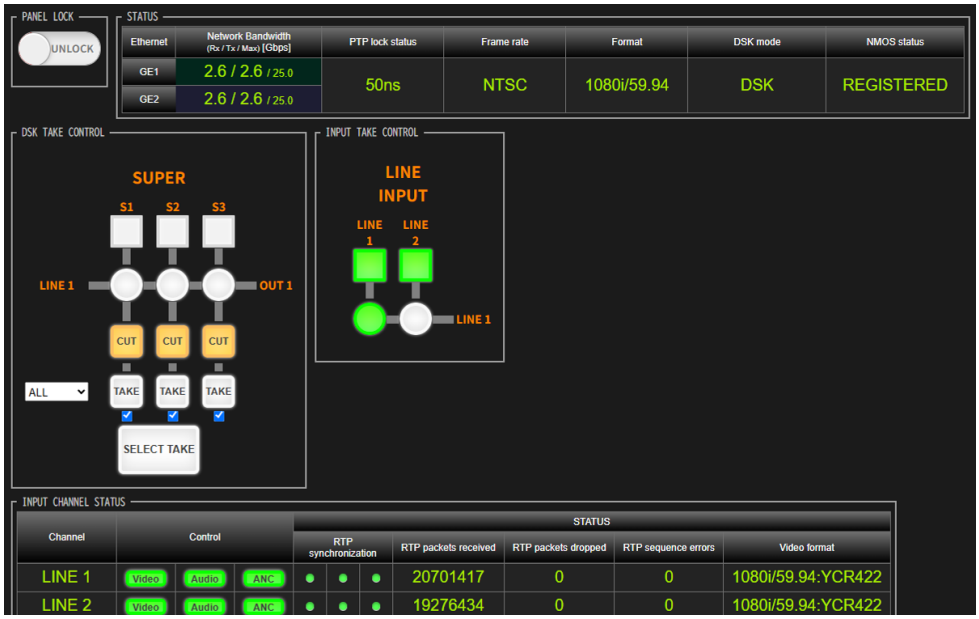
1112	ipck70hLine2InSt2110Status	Line2 in の ST-2110 の稼働状態を通知（1 ビット単位のビットフラグ） 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC　が稼働中
1113	ipck70hLine2InSynchronizationStatus	Line2 in のデータ入力への同期ステータス 0 = 非同期 1 = 同期中
1120	ipck70hFill1UsedStatus	Fill1 の有効・無効状態を通知します。 0 = 無効 1 = 有効
1121	ipck70hFill1DetectedFormat	Fill1 で検出されたフォーマット ※フォーマットステータス表を参照
1122	ipck70hFill1St2110Status	Fill1 の ST-2110 の稼働状態を通知（1 ビット単位のビットフラグ） 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC　が稼働中
1123	ipck70hFill1SynchronizationStatus	Fill1 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中
1130	ipck70hKey1UsedStatus	Key1 の有効・無効状態を通知します。 0 = 無効 1 = 有効
1131	ipck70hKey1DetectedFormat	Key1 で検出されたフォーマット ※フォーマットステータス表を参照
1132	ipck70hKey1St2110Status	Key1 の ST-2110 の稼働状態を通知（1 ビット単位のビットフラグ） 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC　が稼働中
1133	ipck70hKey1SynchronizationStatus	Key1 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中
1140	ipck70hFill2UsedStatus	Fill2 の有効・無効状態を通知します。 0 = 無効 1 = 有効
1141	ipck70hFill2DetectedFormat	Fill2 で検出されたフォーマット ※フォーマットステータス表を参照
1142	ipck70hFill2St2110Status	Fill2 の ST-2110 の稼働状態を通知（1 ビット単位のビットフラグ） 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC　が稼働中
1143	ipck70hFill2SynchronizationStatus	Fill2 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中

1150	ipck70hKey2UsedStatus	Key2 の有効・無効状態を通知します。 0 = 無効 1 = 有効
1151	ipck70hKey2DetectedFormat	Key2 で検出されたフォーマット ※フォーマットステータス表を参照
1152	ipck70hKey2St2110Status	Key2 の ST-2110 の稼働状態を通知（1 ビット単位のビットフラグ） 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中
1153	ipck70hKey2SynchronizationStatus	Key2 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中
1160	ipck70hFill3UsedStatus	Fill3 の有効・無効状態を通知します。 0 = 無効 1 = 有効
1161	ipck70hFill3DetectedFormat	Fill3 で検出されたフォーマット ※フォーマットステータス表を参照
1162	ipck70hFill3St2110Status	Fill3 の ST-2110 の稼働状態を通知（1 ビット単位のビットフラグ） 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中
1163	ipck70hFill3SynchronizationStatus	Fill3 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中
1170	ipck70hKey3UsedStatus	Key3 の有効・無効状態を通知します。 0 = 無効 1 = 有効
1171	ipck70hKey3DetectedFormat	Key3 で検出されたフォーマット ※フォーマットステータス表を参照
1172	ipck70hKey3St2110Status	Key3 の ST-2110 の稼働状態を通知（1 ビット単位のビットフラグ） 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中
1173	ipck70hKey3SynchronizationStatus	Key3 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中
1180	ipck70hLine1OutUsedStatus	Line1 out の有効・無効状態を通知します。 0 = 無効 1 = 有効
1181	ipck70hLine1OutDetectedFormat	Line1 out で検出されたフォーマット ※フォーマットステータス表を参照
1182	ipck70hLine1OutSt2110Status	Line1 out の ST-2110 の稼働状態を通知（1 ビット単位のビットフラグ） 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中

1183	ipck70hLine1OutSynchronizationStatus	Line1 out のデータ入力への同期ステータス 0 = 非同期 1 = 同期中
1190	ipck70hLine2OutUsedStatus	Line2 out の有効・無効状態を通知します。 0 = 無効 1 = 有効
1191	ipck70hLine2OutDetectedFormat	Line2 out で検出されたフォーマット ※フォーマットステータス表を参照
1192	ipck70hLine2OutSt2110Status	Line2 out の ST-2110 の稼働状態を通知（1 ビット単位のビットフラグ） 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC　が稼働中
1193	ipck70hLine2OutSynchronizationStatus	Line2 out のデータ入力への同期ステータス 0 = 非同期 1 = 同期中

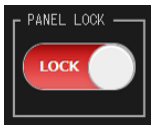
2.CONTROL

1)　　ステータス画面



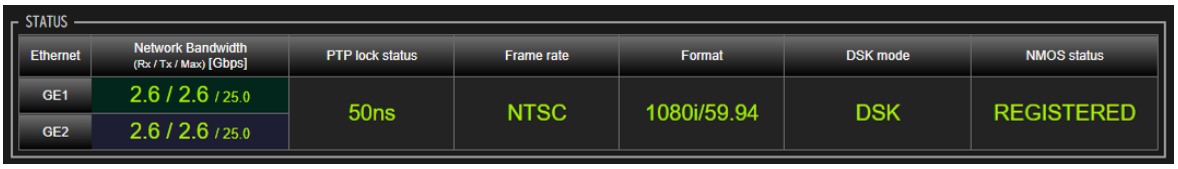
1-1)PANEL LOCK

パネルがロック状態である場合 CONTROL のパラメータの変更はできません。



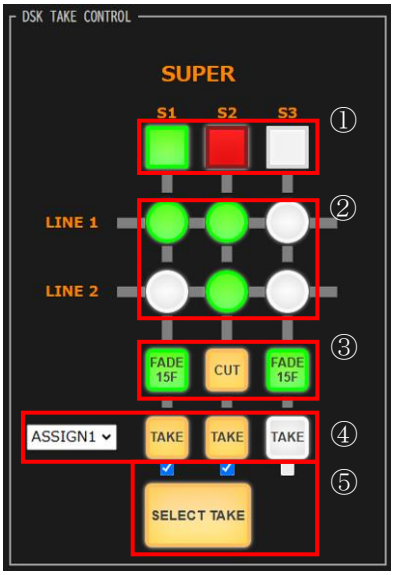
CONTROL のパラメータを変更する場合は PANEL LOCK を UNLOCK にして行ってください。

1-2)STATUS



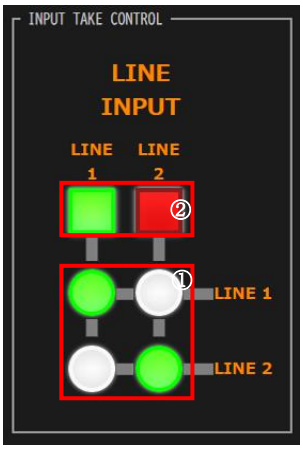
Network Bandwidth	各 Ethernet の Tx、Rx、最大帯域を表示します。
PTP lock status	PTP のロック状態を表示します。正常受信時はロックレンジを表示します。 「FREERUN」は PTP が現在(外部)マスターにロックしていない状態です。 「UNLOCKED」はマスターが見つかったが、まだキャリブレーション中の状態です。 「LOCKING」は(外部)マスターが見つかったが、ロック範囲に到達していない状態です。
Frame rate	現在 NTSC、PAL いずれかに設定しているか表示します。 SYSTEMのST-2059 Master defined frame rate の項目で設定できます。(将来対応予定)
Format	現在設定している映像フォーマットを表示します。 SYSTEM の Format の項目で設定できます。(将来対応予定)
DSK mode	現在設定している DSK モードを表示します。 DSK の Mode の項目で設定できます。
NMOS status	RDS への登録状態を表示します。

1-2)DSK TAKE CONTROL



①	SUPER 入力ステータス	スーパー毎の入力状態を表示します。
②	SUPER テイクステータス	スーパー毎の各本線映像へのテイク状態を表示します。 ボタンを押下することにより、スーパー状態を変更することができます。
③	TRANSITION TAKE MODE	スーパー毎の TRANSITION TAKE MODE を表示します。 ボタンを押下することにより、TAKE ON/OFF 同時に TRANSITION TAKE MODE を変更することができます。
④	TAKE ボタン	スーパー毎にアサインテイクを行います。TAKE ボタン横にあるリストからアサインテイクの種類を選択できます・。
⑤	SELECT TAKE ボタン	各 TAKE ボタンを同時に操作できます。TAKE ボタン下にあるチェックボックスを操作することにより選択できます。

1-3)INPUT TAKE CONTROL



① LINE 入力ステータス　　ライン毎の入力状態を表示します。
② LINE DIRECT ステータス　　各本線映像に対しての入力元を表示します。
ボタンを押下することにより、各本線映像に対する入力元を切り替えることができます。

1-4)INPUT CHANNEL STATUS

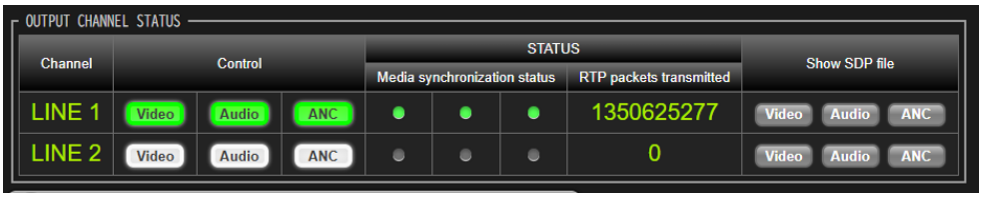
INPUT CHANNEL STATUS

Channel		Control			STATUS						
					RTP synchronization			RTP packets received	RTP packets dropped	RTP sequence errors	Video format
LINE 1		Video	Audio	ANC	●	●	●	1206646605	0	8	1080i/59.94:YCR422
LINE 2		Video	Audio	ANC	●	●	●	0	0	0	1080i/59.94:YCR422
S1	FILL 1	Video			●			121169341	0	0	1080i/59.94:YCR422
	KEY 1	Video			●			117199503	0	0	1080i/59.94:YCR422
S2	FILL 2	Video			●			0	0	0	1080i/59.94:YCR422
	KEY 2	Video			●			0	0	0	1080i/59.94:YCR422
S3	FILL 3	Video			●			0	0	0	1080i/59.94:YCR422
	KEY 3	Video			●			0	0	0	1080i/59.94:YCR422

・

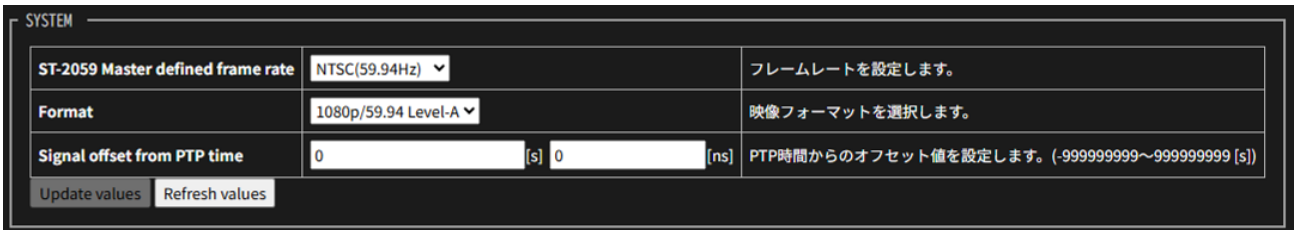
Control	入力チャンネル毎のストリームの操作を行います。Video,Audio,ANC 毎にストリームの ON/OFF を行えます。SUPER(FILL/KEY)に関しては、VIDEO のみになります。
RTP synchronization	Video,Audio,ANC それぞれの同期状態を表示します。正常に同期している場合は、緑色に点灯します。
RTP packets received	RTP パケットの受信総数を表示します。
RTP packets dropped	ドロップした TRP パケットの総数を表示します。
RTP sequence errors	シーケンスエラーの総数を表示します。
Video format	映像フォーマットを表示します。

1-5)OUTPUT CHANNEL STATUS



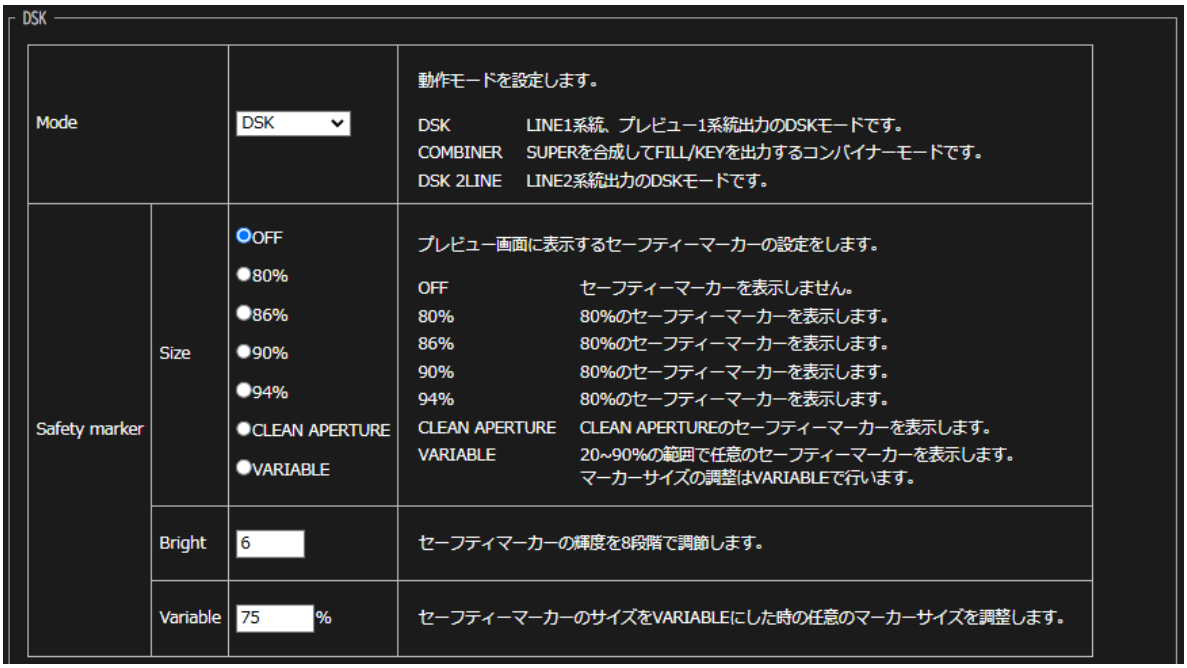
Control	出力チャンネル毎のストリームの操作を行います。Video,Audio,ANC 毎にストリームの ON/OFF を行えます。
Media synchronization status	Video,Audio,ANC それぞれの同期状態を表示します。正常に同期している場合は緑色に点灯します。
RTP packets transmitted	RTP パケットの送信総数を表示します。
Show SDP file	SDP file の内容を表示します。

2) SYSTEM



ST-2059 Master defined frame rate	フレームレートを設定します。
Format	映像フォーマットを設定します。
Signal offset from PTP time	PTP 時間に対してオフセット値を設定します。
Update values ボタン	設定した内容を反映します。
Refresh values ボタン	変更した内容を破棄します。

3) DSK



Mode　　DSK 動作モードを設定します。

DSK:　　1 系統の本線信号(LINE IN1)に、3 系統のスーパー信号(FILL IN1+KEY IN1、FILL IN2+KEY IN2、FILL IN3+KEY IN3)を合成して出力するモードです。OA 出力(LINE OUT1)と PV 出力(LINE OUT2)が各 1 系統あります。OA 出力は、外部接点、3 系統のスーパーを個別に TAKE することができます。PV 出力はスーパーの TAKE 操作に関わらず、常にスーパー信号が出力されます。オンスクリーンメニューが表示されるのは PV 出力のみです。

COMBINER:　　3 系統のスーパー(FILL IN1+KEY IN1、FILL IN2+KEY IN2、FILL IN3+KEY IN3)を合成して、1 系統の FILL、KEY 信号を出力(LINE OUT1、LINE OUT2)するモードです。アップストリームキーとしてご使用いただけます。DSK モードと同様に、TAKE することで LINEOUT1 に FILL、LINE OUT2 に KEY を出力します。PV 出力はありません。OA 出力のみで、オンスクリーンメニューは表示できません。

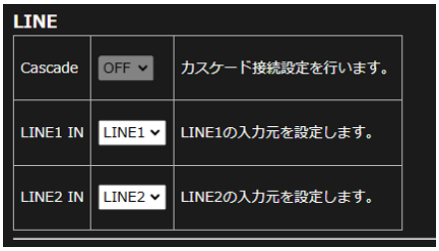
DSK2LINE:　　2 系統の本線信号(LINE IN1、LINE IN2)に、3 系統のスーパー信号(FILL IN1+KEY IN1、FILL IN2+KEY IN2、FILL IN3+KEY IN3)を合成して出力するモードです。2 系統の OA 出力(LINE OUT1、LINE OUT2)があります。外部リモコン、外部接点、SNMP 制御により、2 系統のスーパーを本線信号毎に個別に TAKE することができます。PV 出力はありません。OA 出力のみで、オンスクリーンメニューは表示できません。

CLEAN SWITCH:　　DSK モードと同等ですが LINE INPUT はクリーンスイッチに対応しています。

CLEAN SWITCH 2OUT:　　1 系統の本線信号(LINE IN1)に、3 系統のスーパー信号(FILL IN1+KEY IN1、FILL IN2+KEY IN2、FILL IN3+KEY IN3)を合成して出力するモードです。2 系統の OA 出力(LINE OUT1、LINE OUT2)があります。外部リモコン、外部接点、SNMP 制御により、2 系統のスーパーを本線信号毎に個別に TAKE することができます。PV 出力はありません。OA 出力のみで、オンスクリーンメニューは表示できません。クリーンスイッチに対応しています。

Safety marker	PV 出力側に任意のサイズのセーフティーマーカーを合成表示すること ができます。PV 出力に対応していない COMBINER モード、DSK2LINE モードではセーフティー マーカーを表示させることができません。
Size	セーフティーマーカーのサイズを設定をします。
	OFF: セーフティーマーカーを表示しません。
	80%: PV 出力に 80%のセーフティーマーカーを合成表示します。
	86%: PV 出力に 86%のセーフティーマーカーを合成表示します。
	90%: PV 出力に 90%のセーフティーマーカーを合成表示します。
	94%: PV 出力に 96%のセーフティーマーカーを合成表示します。
	CLEAN AP: CLEAN APERTURE のセーフティーマーカーを合成表示します。
	VARIABLE: 20～99%の範囲で任意のセーフティーマーカーを合成表示します。
Bright	セーフティーマーカーの輝度を 8 段階で調整できます。
Variable	Size で VARIABLE を選択した際の、セーフティーマーカーのサイズを 20～99%の範囲で調整できます。

3-1)LINE



Cascade	複数の IPCK-70H を用いた多チャンネルスーパー向けのカスケード接続に関する設定を行います。※OFF 以外に設定することはできません。(将来対応予定)
LINE1 IN	本線映像 1 の信号ソースを LINE1、LIN2 から選択します。 カスケード設定 OFF、または TOP で、かつ MODE 設定が DSK、DSK2LINE モードの時に有効です。
LINE2 IN	本線映像 2 の信号ソースを LINE1、LINE2 から選択します。 カスケード設定 OFF、または TOP で、DSK2LINE モードの時に有効です。

3-2)SUPER

SUPER1～3 タブ　設定する SUPER を選択します。

Transition　SUPER のトランジションに関する設定を行います。

On take mode　スーパーを ON にする時のトランジションを CUT/FADE から選択します。

On take speed　スーパーを ON にする時のトランジションスピードを設定します。
ON TAKE の設定を FADE にした時に有効です。トランジションスピードの設定単位は 1 映像フレームです。

Off take mode　スーパーを OFF にする時のトランジションを CUT/FADE から選択します。

Off take speed　スーパーを OFF にする時のトランジションを CUT/FADE から選択します。OFF TAKE の設定を FADE にした時に有効です。トランジションスピードの設定単位は 1 映像フレームです。

Fade take mode　FADE のトランジション実行中に TAKE 操作を行った時の振る舞いを設定します。
[CANCEL] FADE 実行中に TAKE 操作をするとスーパーはカットアウトします。
[BLOCK] FADE 実行中の TAKE 操作を受け付けません。

3-2)Fill

FILL　SUPER の FILL 信号に関する設定を行います。

Fill select　スーパーで使用する FILL 信号のソースを選択します。

- EXT:　外部 FILL 信号を使用します。
- WHITE:　外部 FILL 信号を使用せず、FILL 信号を全面白に設定します
- BLACK:　外部 FILL 信号を使用せず、FILL 信号を全面黒に設定します。
- VARIABLE:　外部 FILL 信号を使用せず、FILL 信号を任意の色に設定します。
- ANIMATION:　外部 FILL 信号を使用せず、FILL 信号を任意のアニメーション色に設定します。※詳細は【アニメーション色について】を参照してください。

Variable　VARIABLE を選択した時の任意の色を設定します。

- Lumi　輝度を設定します。0～109%で設定できます。
- Hue　色相を設定します。0～359 度で設定できます。
- Sat　彩度を設定します。0～100%で設定できます。
- Color limitter　カラーリミッターを設定します。

Animation　ANIMATION を選択した時の各パラメーターを設定します。

- Start　アニメーション色の開始色を設定します。
  - Lumi　輝度を設定します。0～109%で設定できます。
  - Hue　色相を設定します。0～359 度で設定できます。
  - Sat　彩度を設定します。0～100%で設定できます。
- End　アニメーション色の終了色を設定します。
  - Lumi　輝度を設定します。0～109%で設定できます。
  - Hue　色相を設定します。0～359 度で設定できます。
  - Sat　彩度を設定します。0～100%で設定できます。
- Step　アニメーション色のステップを設定します。
  - Lumi　輝度を設定します。0～109%で設定できます。
  - Hue　色相を設定します。0～359 度で設定できます。
  - Sat　彩度を設定します。0～100%で設定できます。
- End action　アニメーション色の再生終了動作を設定します
  - TOP:　Start のパラメーターから再度アニメーションします。

REVERSE: End パラメーターに達したときに Start パラメーターに向かって戻ります。以後、Start ⇔ End 間を行き来します。

Change time アニメーション切り替え時間を 1～300 フレームの範囲で設定します。

Fill gain スーパーで使用する FILL 信号のゲインを設定します。
通常は工場出荷時設定の 100%でお使いください。100%の設定では、FILL IN1 に入力した信号のレベルを変更せず出力する設定です。
HDR システムで運用時に、簡易的に FILL 信号の輝度を落としたい時等にご使用ください。

3-4)Key

KEY SUPER の KEY 信号に関する設定を行います。

Key select スーパーで使用する KEY 信号のソースを設定します。
EXT KEY: 外部 KEY 信号を使用し、スーパーインポーズします。
SELF KEY: 外部 FILL 信号から KEY を生成してスーパーインポーズします。

Mix mode KEY 信号のミックスモードを選択します。
NORMAL: リニアモードに設定します。(LINE×(1-KEY)＋FILL×KEY)
ADDTIONAL: 二重抜き防止モードに設定します。(LINE×(1-KEY)+FILL)

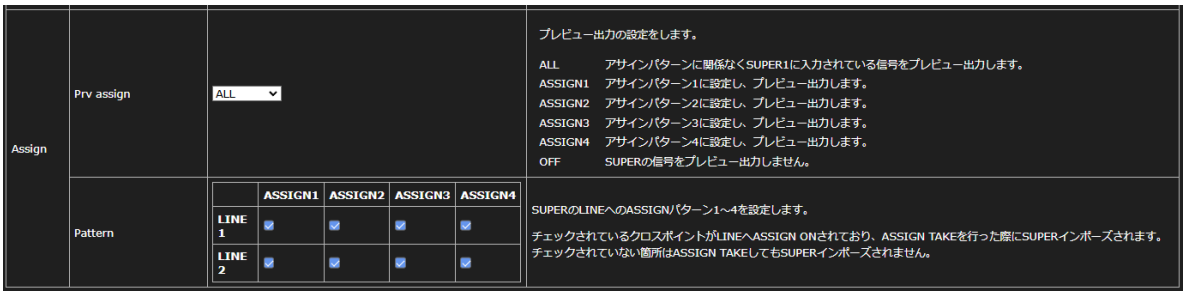
Luminance clip ルミナンスクリップを設定します。
※EXT KEY、SELF KEY 設定の時に有効です。
Low ロークリップを設定します。0～99%で調整できます。
High ハイ・クリップを設定します。1～100%で調整できます。

Chroma clip クロマクリップを設定します。
※SELF KEY 設定の時に有効です。
Low ロークリップを設定します。0～99%で調整できます。
High ハイ・クリップを設定します。1～100%で調整できます。

Key gain KEY 信号のレベル調整(透過調整)を行います。
ウォーターマーク等のロゴマークの透過具合を調整したい時に変更します。
通常は変更せず、100%の設定でご使用ください。

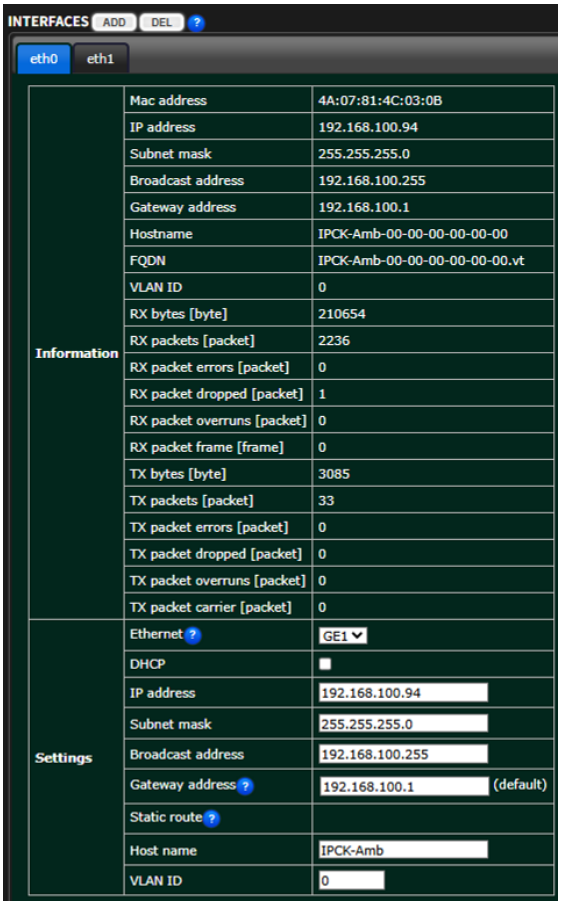
1～100%の範囲で設定します。100%で元のレベルのまま出力されます。キーレベルが 100%ある素材をハーフレベルに変更してスーパーしたいときは 50%に設定してください。

3-5)Assign



ASSIGN	SUPER の ASSIGN に関する設定を行います。
PRV ASSIGN	プレビュー出力のアサインモードを設定します。
	ALL: アサインパターンに関係なくスーパーをプレビュー出力します。
	ASSIGN1: スーパーをアサイン 1 に設定し、プレビュー出力します。
	ASSIGN2: スーパーをアサイン 2 に設定し、プレビュー出力します。
	ASSIGN3: スーパーをアサイン 3 に設定し、プレビュー出力します。
	ASSIGN4: スーパーをアサイン 4 に設定し、プレビュー出力します。
	OFF: スーパーをプレビューしません。
PATTERN	スーパーのアサインパターン 1～4 を設定します
	LINE1 ライン 1 のスーパーアサイン 1～4 を設定します。
	LINE2 ライン 2 のスーパーアサイン 1～4 を設定します。

4)NETWORK INTERFACE



ADD ボタン　VLAN インターフェースの追加ができます。インターフェース毎のタブが作成されます。
※VLAN を使用する場合は、各 VLAN ID 毎にインターフェースを作成してください。

DEL ボタン　VLAN インターフェースの削除ができます。現在選択中のタブ(インターフェース)を削除します。
※eth0、eth1 それぞれ 1 つ以上のインターフェースを設定する必要があります。

Information　インターフェース毎の現在のネットワーク設定を表示します。

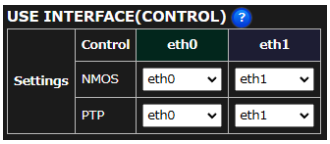
Mac address	MAC アドレスを表示します。
IP address	IP アドレスを表示します。
Subnet mask	サブネットマスクを表示します。
Broadcast address	ブロードキャストアドレスを表示します。
Gateway address	ゲートウェイアドレスを表示します。
Hostname	ホスト名を表示します。
FQDN	ドメイン名を表示します。
VLAN ID	VLAN タグ ID を表示します。
RX bytes	受信した IP パケットの総バイト数を表示します。
RX packet	受信した IP パケットの総パケット数を表示します。
RX packet error	受信した IP パケットのエラー数を表示します。
RX packet dropped	受信した IP パケットのドロップ数を表示します。
RX packet overrun	受信した IP パケットのオーバーラン数を表示します。
RX packet frame	受信した IP パケットのフレーム数を表示します。
TX packet	送信した IP パケットの総バイト数を表示します。
TX packets	送信した IP パケットの総パケット数を表示します。
TX packet errors	送信した IP パケットのエラー数を表示します。
TX packet overrun	送信した IP パケットのオーバーラン数を表示します。
TX packet carrier	送信した IP パケットのキャリア数を表示します。

Settings　インターフェース毎のネットワーク設定を行います。

Ethernet	インターフェースで使用する Ethernet を指定します。
GE1：	GE1(SFP1)を使用します。
GE2：	GE2(SFP2)を使用します。

DHCP	DHCP の使用有無を設定します。
IP address	IP アドレスを設定します。
Subnet mask	サブネットマスクを設定します。
Broadcast address	ブロードキャストアドレスを設定します。
Gateway address	ゲートウェイアドレスを設定します。 ※コントロールに設定しているプライマリ側のインターフェースがデフォルトゲートウェイ(Default)になります。
Static route	スタティックルートを設定します。 ※デフォルトゲートウェイ(Default)以外のインターフェースで設定できます。 ネットワークアドレスおよび、サブネットマスク数を設定します。
Add ボタン	スタティックルートを追加します。
Del ボタン	スタティックルートを削除します。
Host name	ホスト名を設定します。
VLAN ID	VLAN タグIDを設定します。 ※VLANをタグIDを指定しない場合は 0 を設定してください。 ※同じEthernet内で重複することはできません。

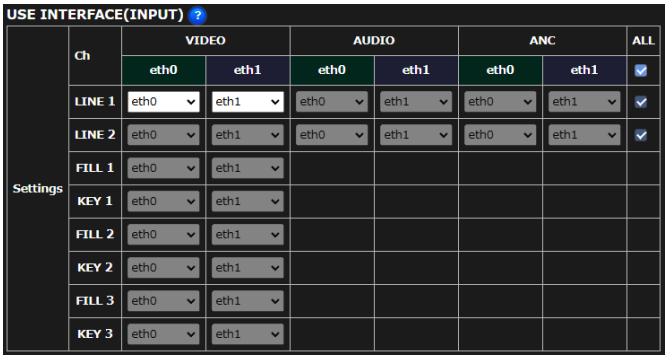
Information	インターフェース共通の現在のネットワーク設定を表示します。	
	Privary DNS server	プライマリ DNS サーバアドレスを表示します。
	Secondary DNS server	セカンダリ DNS サーバアドレスを表示します。
Settings	インターフェース共通のネットワーク設定を行います。	
	Domain name	ドメイン名を設定します。
	Primary DNS server	プライマリ DNS サーバアドレスを設定します。
	Secondary DNS server	セカンダリ DNS サーバアドレスを設定します。



USE	コントロールで使用するインターフェースを設定します。

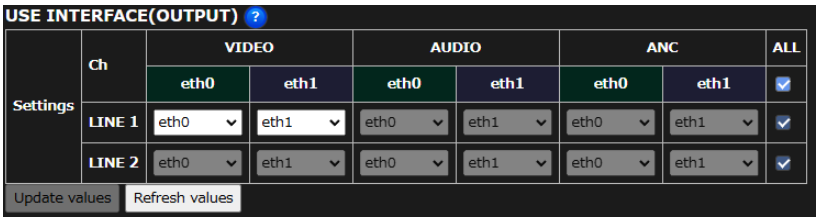
INTERFACE(CONTROL)

NMOS	NMOS 制御で使用するインターフェースを設定します。
PTP	PTP 制御で使用するインターフェースを設定します



USE INTERFACE(INPUT)　入力ストリームで使用するインターフェースを設定します。
ALL をチェックすることにより全体を同一のインターフェースに指定できます。

LINE1～2	各チャンネルで使用するインターフェースをメディア毎に設定します。
FILL1～3	ALL をチェックすることによりチャンネルで同一のインターフェースを指定できます。
KEY1～3	

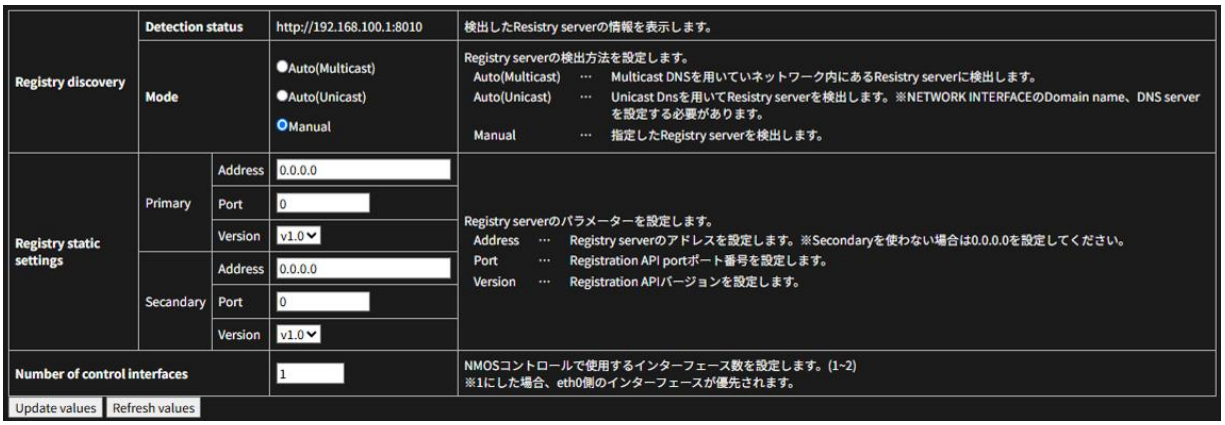


USE INTERFACE(OUTPUT)　出力ストリームで使用するインターフェースを設定します。
ALL をチェックすることにより全体を同一のインターフェースに指定できます。

LINE1～2	各チャンネルで使用するインターフェースをメディア毎に設定します。
FILL1～3	ALL をチェックすることによりチャンネルで同一のインターフェースを指定できます。
KEY1～3	

Update values ボタン	NETWORK INTERFACE で設定した内容を反映します。 ※設定反映後にモジュールの再起動を行います。
Refresh value ボタン	NETWORK INTERFACE で変更した内容を破棄します。

5) NMOS

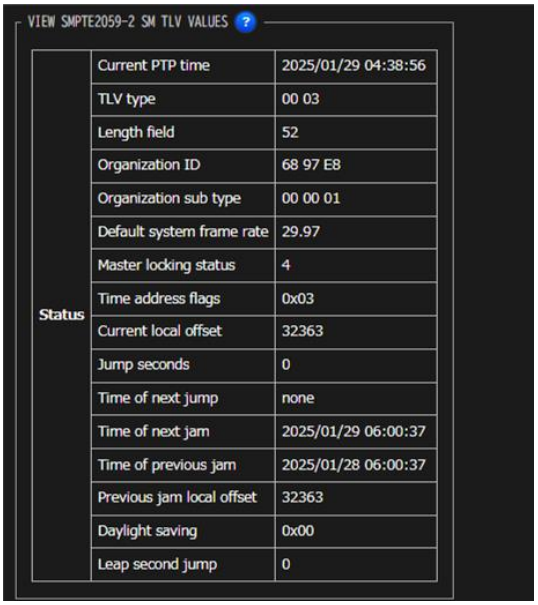


NMOS　NMOS に関する設定を行います。

Registry discovery	使用する Registry server を設定します。
Auto(Multicast):	MulticastDNS を用いてネットワーク内にある Registry server を検出します。
Auto(Unicast):	Unicast DNS を用いて Registry server を検出します。
Manual:	指定した Registry server を検出します。
Registry static settings	Registry discovery で Manual を指定した場合、Registry server を設定ます。
Address	Registry server のアドレスを設定します。
Port	Registration API の port 番号を設定します。
Version	Registration API のバージョンを設定します。
Number of control interface	NMOS コントロールで使用するインターフェース数を設定します。 ※1 にした場合、eth0 側のインターフェースを優先します。
Update values	設定した内容を反映します。
Refresh values	変更した内容を破棄します。

6) SMPTE2059-2 SM TLV VALUES

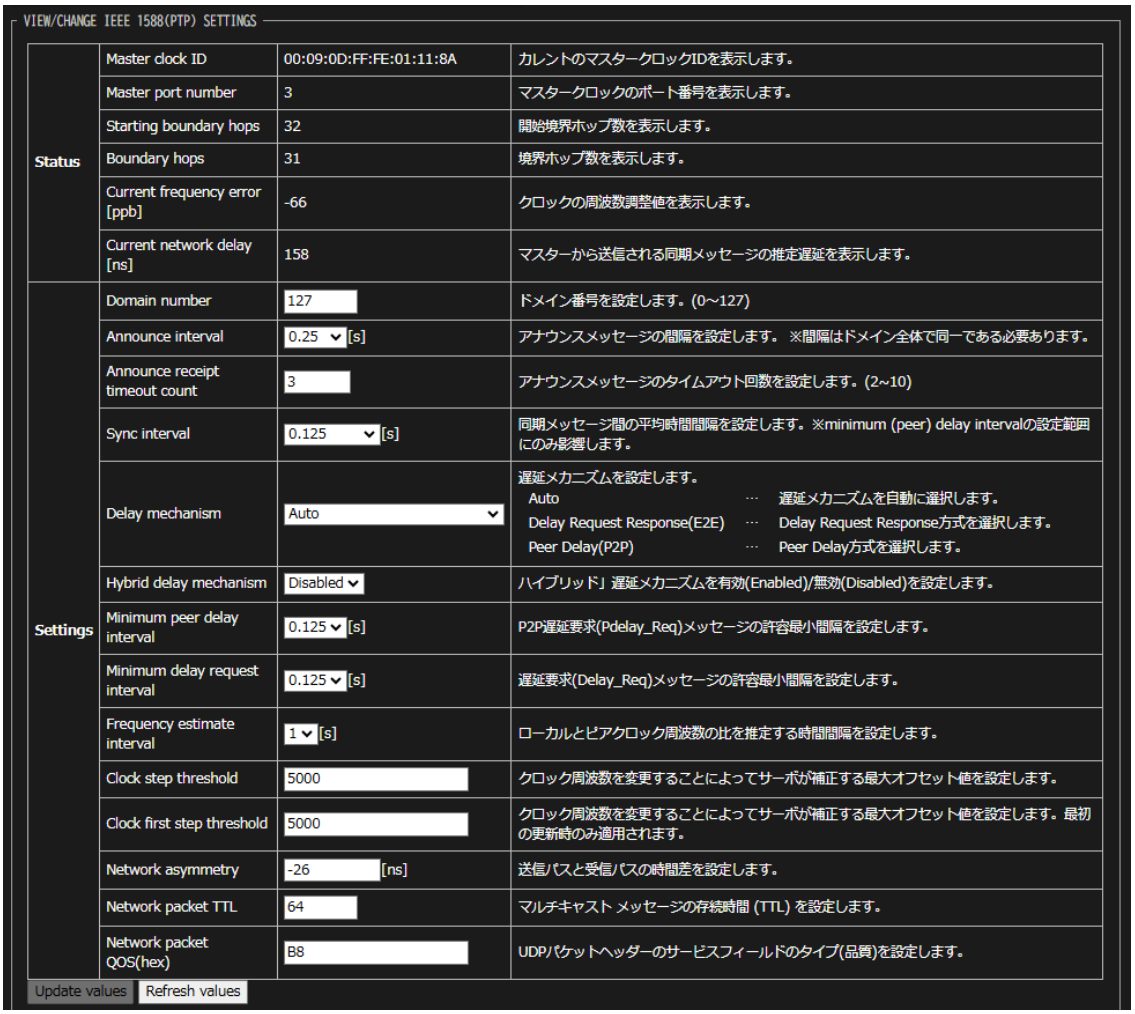
※詳細については SMPTE ST2059-2:2015 を参照してください。



Status	Current PTP time	現在の PTP 時間を表示します。
	TLV type	TLV type 値を表示します。
	Length field	フィールド長を表示します。
	Organization ID	Organization id を表示します。
	Organization sub type	Organization subtype を表示します。
	Default system frame rate	デフォルトのビデオフレームレートを表示します。
	Master locking status	マスターロッキング状況を表示します。
	Time address flags	タイムアドレスフラグを表示します。
	Current local offset	カレントローカルオフセット値を表示します。
	Jump seconds	ジャンプセコンド値を表示します。
	Time of next jump	次の不連続が発生する時間を表示します。
	Time of next jam	次の Daily Jam が発生する時間を表示します。
	Time of previous jam	前回 Daily jam が発生した時間を表示します。
	Previous jam local offset	前回 Daily jam の offset 値を表示します。
	Daylight saving	Daylight saving の設定を表示します。
	Leap second jump	Leap second jump 設定値を表示します。

7) VIEW/CHANGE IEEE 1588(PTP) SETTINGS

※詳細については IEEE1588-2008 を参照してください。



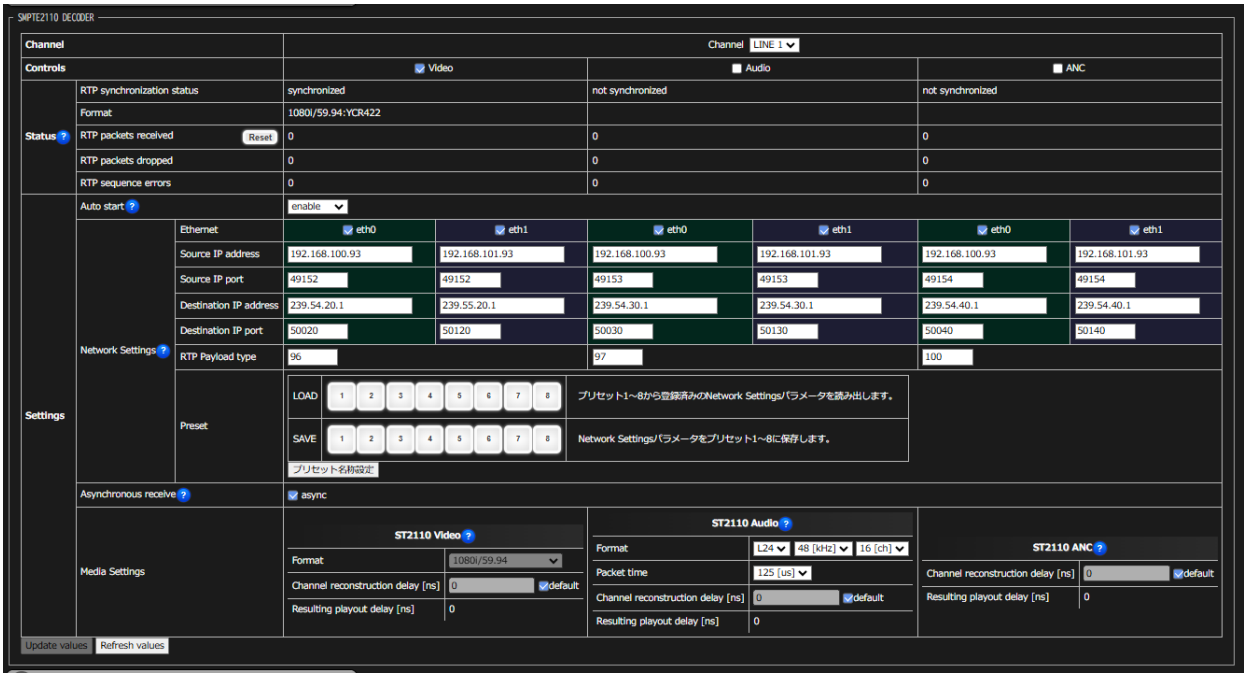
VIEW/CHANGE IEEE 1588(PTP) SETTINGS

Status	Master clock ID	00:09:0D:FF:FE:01:11:8A	カレントのマスタークロックIDを表示します。
	Master port number	3	マスタークロックのポート番号を表示します。
	Starting boundary hops	32	開始境界ホップ数を表示します。
	Boundary hops	31	境界ホップ数を表示します。
	Current frequency error [ppb]	-66	クロックの周波数調整値を表示します。
	Current network delay [ns]	158	マスターから送信される同期メッセージの推定遅延を表示します。
Settings	Domain number	127	ドメイン番号を設定します。(0~127)
	Announce interval	0.25 [s]	アナウンスメッセージの間隔を設定します。 ※間隔はドメイン全体で同一である必要あります。
	Announce receipt timeout count	3	アナウンスメッセージのタイムアウト回数を設定します。(2~10)
	Sync interval	0.125 [s]	同期メッセージ間の平均時間間隔を設定します。※minimum (peer) delay intervalの設定範囲にのみ影響します。
	Delay mechanism	Auto	遅延メカニズムを設定します。 Auto … 遅延メカニズムを自動に選択します。 Delay Request Response(E2E) … Delay Request Response方式を選択します。 Peer Delay(P2P) … Peer Delay方式を選択します。
	Hybrid delay mechanism	Disabled	ハイブリッド」遅延メカニズムを有効(Enabled)/無効(Disabled)を設定します。
	Minimum peer delay interval	0.125 [s]	P2P遅延要求(Pdelay_Req)メッセージの許容最小間隔を設定します。
	Minimum delay request interval	0.125 [s]	遅延要求(Delay_Req)メッセージの許容最小間隔を設定します。
	Frequency estimate interval	1 [s]	ローカルとピアクロック周波数の比を推定する時間間隔を設定します。
	Clock step threshold	5000	クロック周波数を変更することによってサーボが補正する最大オフセット値を設定します。
	Clock first step threshold	5000	クロック周波数を変更することによってサーボが補正する最大オフセット値を設定します。最初の更新時のみ適用されます。
	Network asymmetry	-26 [ns]	送信パスと受信パスの時間差を設定します。
	Network packet TTL	64	マルチキャスト メッセージの存続時間 (TTL) を設定します。
	Network packet QOS(hex)	B8	UDPパケットヘッダーのサービスフィールドのタイプ(品質)を設定します。

Update values　Refresh values

Status	Master clock ID	マスターのクロック ID を表示します。
	Master port number	マスターのポートナンバーを表示します。
	Starting boundary hops	境界ホップ数の初期値を表示します。
	Boundary hops	境界ホップ数を表示します。
	Current frequency error	Current frequency error を表示します。
	Current network delay	Current network delay を表示します。
Settings	Domain number	PTP ドメインナンバーを設定します。
	Priority 1	優先順位1を設定します。
	Priority 2	優先順位2を設定します。
	Log announce interval	アナウンスメッセージの送信間隔を設定します。
	Announce receipt timeout count	アナウンスメッセージの受信タイムアウト値を設定します。
	Log sync interval	Sync メッセージの送信間隔を設定します。
	Delay mechanism	遅延メカニズムを設定します。
	Hybrid delay mechanism	Hybrid delay 使用有無を設定します。
	Log minimum peer delay interval	Peer delay メッセージの最小送信間隔を設定します。
	Log minimum delay request interval	Delay メッセージの最小送信間隔を設定
	Log frequency estimate interval	Log frequency estimate の時間間隔を設定します。
	Clock step threshold	Clock step threshold を設定します。
	Clock first step threshold	Clock first step threshold を設定します。
	Network asymmetry	Network asymmetry を設定します。
	Network packet TTL	IP パケットのTTLを設定します。
	Network packet QOS	IPパケットの QoS を設定します。

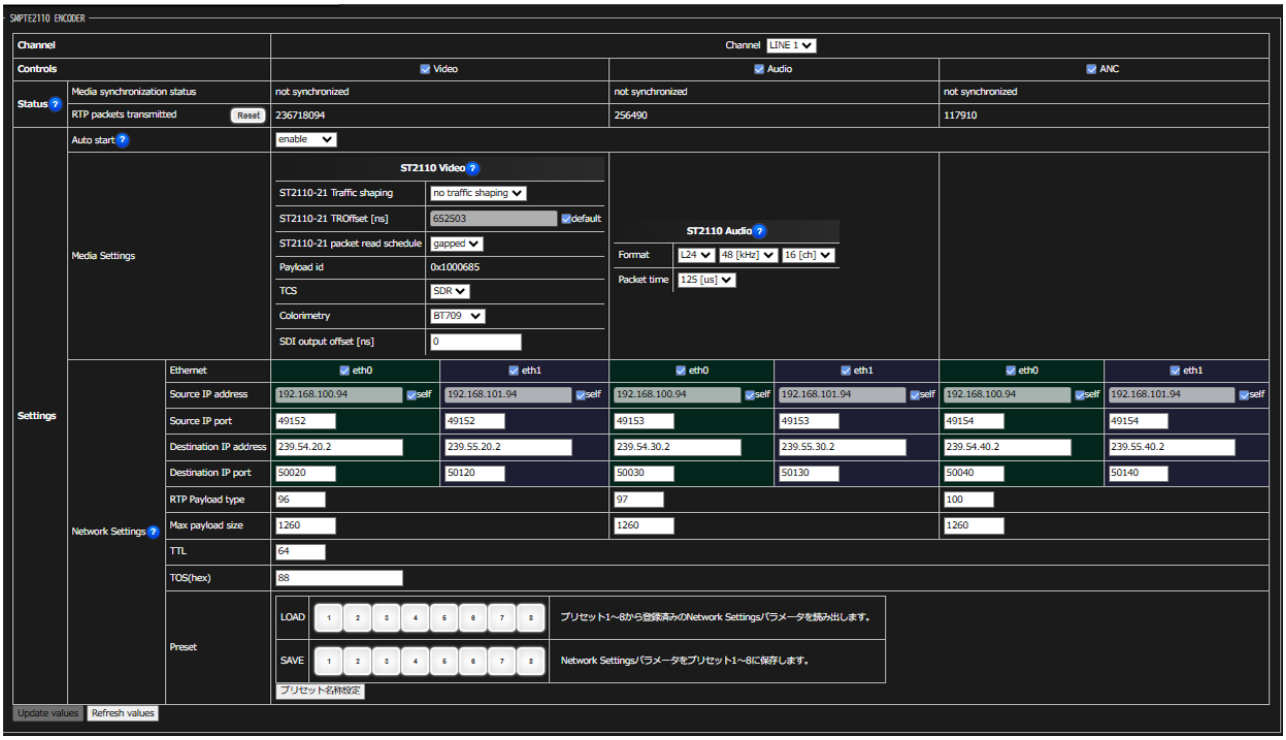
8) SMPTE2110 INPUT(DECODER)



Channel	表示／設定するチャンネルを選択します。	
Control	ストリームの使用有無を設定します。	
Status	RTP synchronization status	各メディアの同期状態を表示します。
	Format	検出したフォーマットを表示します。
	RTP packets received	受信 RTP パケット総数を表示します。
	RTP packets dropped	受信 RTP ドロップパケット数を表示します。
	RTP sequence errors	受信 RTP シーケンスエラー数を表示します。
Settings	Auto start	起動時の各ストリームの使用有無(control)を設定します。
	disable:	常に disable
	enable:	常に enable
	last state:	終了時の状態を保持
	Ethernet	メディア毎のインターフェースの使用有無を設定します。
	Source IP address	Source IP アドレスを設定します。
	Source IP port	Source Port 番号を設定します。
	Destination IP address	Destination IP アドレスを設定します。
	Destination IP port	Destination Port 番号を設定します。
	RTP Payload type	RTP Payload type を設定します。
	Preset load	保存した SMPTE2110 ネットワーク設定のプリセットを呼び出します。 ※INPUT チャンネル共通のプリセットです。
	Preset save	SMPTE2110 ネットワーク設定をプリセットに保存します。 ※INPUT チャンネル共通のプリセットです。
	プリセット名称設定	プリセットボタン上に表示する文字を設定します。 ※INPUT チャンネル共通のプリセットです。
	Asynchronous receive	非同期受信の有効／無効を設定します。 ※設定を反映するには、ストリーム(Video/Audio/ANC)を一旦停止する必要があります。
	ST2110 Video	ST2110 Video の各パラメータを設定します。
	Format	入力フォーマットを設定します。
	Channel reconstruction delay	フェイルセーフのバッファ量を設定します。 デフォルトをチェックすることにより、自動的に設定します。
	Resulting playout delay	実際の遅延時間を表示します。
	ST2110 Audio	ST2110 Audio の各パラメータを設定します。
	Format	フォーマット、周波数、チャンネル数を設定します。
	Packet time	パケットタイムを設定します。
	Channel reconstruction delay	フェイルセーフのバッファ量を設定します。

	デフォルトをチェックすることにより、自動的に設定します。
Resulting playout delay	実際の遅延時間を表示します。
ST21110 ANC	ST2110 ANC の各パラメータを設定します。
Channel reconstruction delay	フェイルセーフのバッファ量を設定します。
	デフォルトをチェックすることにより、自動的に設定します。
Resulting playout delay	実際の遅延時間を表示します。

9) SMPTE2110 OUTPUT(ENCODER)

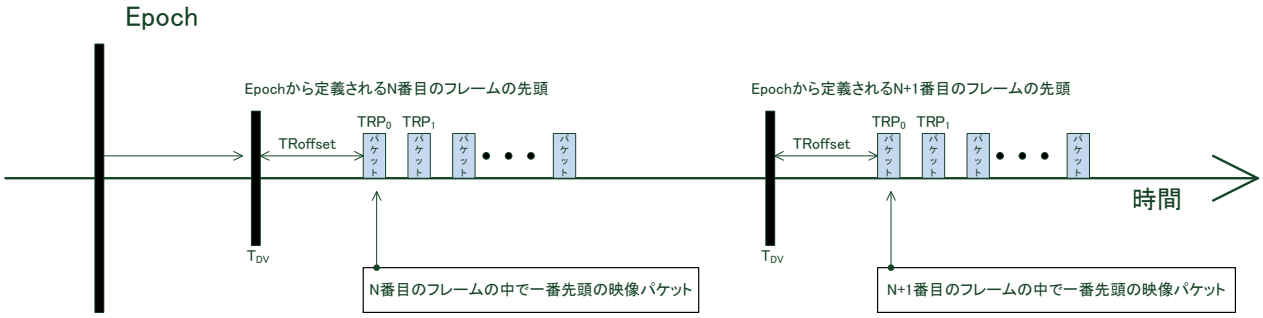


Channel	表示／設定するチャンネルを選択します。	
Controls	ストリームの使用有無を設定します。	
Status	Media synchronization status	各メディアの同期状態を表示します。
	RTP packets transmitted	送信 RTP パケット総数を表示します。
Settings	Auto start	起動時の各ストリームの使用有無を設定します。
	disable:	常に disable
	enable:	常に enable
	last state:	終了時の状態を保持
	ST2110 Video	ST2110 Video の各パラメータを設定します。
	ST2110-21 Traffic shaping	パケットのレートコントロールタイプを設定します。 ※設定を変更するにはストリーム(Video,Audio,ANC)を OFF にする必要があります。
	no traffic shaping:	レートコントロールしません。
	Traffic shaping:	レートコントロールします。
	ST2110-21 TROffset	PTP の Epochde 定義されるプレームの頭から最初の映像パケットが出力されるまでの時間を設定します。
	ST2110-21 packet read shedule	Video パケットのスケジューリングタイプを設定します。
	gapped:	ギャップパケットリードスケジューリング(下記図を参照)
	liner:	リニアパケットリードスケジューリング(下記図を参照)
	Payload id	ペイロード ID を表示します。
	TCS	TCS を設定します。
	SDR/HLG/PQ	
	Colorimetry	Colorimetry を設定します。
	BT709/BT2020	
	SDI output offset	SDI 出力のオフセットを設定します。
	ST2110 Audio	ST2110 Audio の各パラメータを設定します。
	Format	フォーマット、周波数、チャンネル数を設定します。
	L16/20/L24	フォーマットを設定します。
	48 [kHz]	周波数を設定します。
	1～16 [ch]	チャンネル数を設定します。
	Packet time	パケットタイムを設定します。

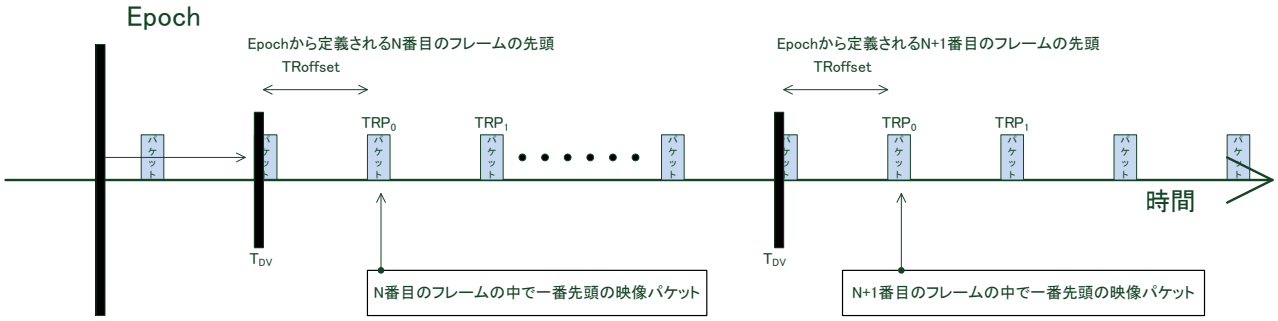
125 [μs]/1[ms]

Ehternet	メディア毎のインターフェースの使用有無を設定します。
Source IP address	Source IP アドレスを設定します。
Source IP port	Source Port 番号を設定します。
Destination IP address	Destination IP アドレスを設定します。
Destination IP port	Destination Port 番号を設定します。
RTP Payload type	RTP Payload type を設定します。
Max payload size	Max payloadサイズを設定します。間接的にPacking Modeを設定することができます。
TTL	IP パケットの TTL を設定します。
TOS	IP パケットの TOS を設定します。
Preset load	保存した SMPTE2110 ネットワーク設定のプリセットを呼び出します。 ※OUTPUT チャンネル共通のプリセットです。
Preset save	SMPTE2110 ネットワーク設定をプリセットに保存します。 ※OUTPUT チャンネル共通のプリセットです。
プリセット名称設定	プリセットボタン上に表示する文字を設定します。 ※OUTPUT チャンネル共通のプリセットです。

Gapped Packet Read Schedule



Linear Packet Read Schedule

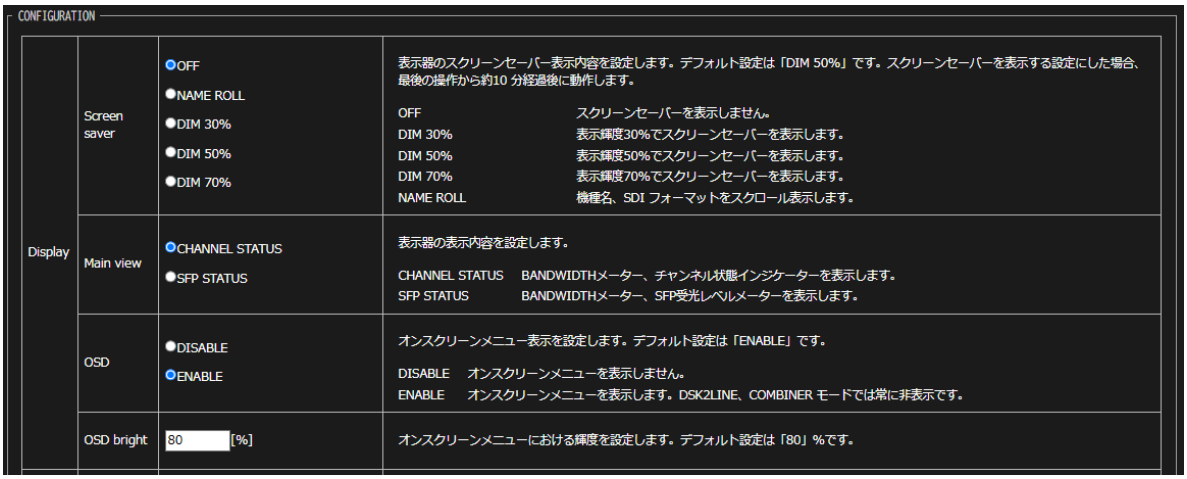


10) ALARM

Alarm	Status	Settings	Description
GE1 link		OFF	GE1のリンクが途絶した場合にアラームを出力します。
GE2 link		OFF	GE2のリンクが途絶した場合にアラームを出力します。
Tip cooling FAN		OFF	FANの回転数が低下した場合にアラームを出力します。
FCS error count		OFF	bad fcsパケットを受信した場合にアラームを出力します。
PTP lock		OFF	PTP同期ができない場合にアラームを出力します。
ST-2110 IP stream error		OFF	ストリームが受信できない場合にアラームを出力します。
Hitless switching		OFF	ヒットレスが無効の場合にアラームを出力します。
Synchronization error		OFF	ストリームが同期できない場合にアラームを出力します。
Video format error		OFF	入力/出力信号のフォーマットにエラーがある場合にアラームを出力します。
Network bandwidth error		OFF	ネットワークの帯域制限を超えた場合にアラームを出力します。

GE1 link	10/25GE1 リンクエラーのアラーム状態表示／設定
GE2 link	10/25GE2 リンクエラーのアラーム状態表示／設定
Tip cooling FAN	ファンアラームの状態表示／設定
FCS error cont	FCS エラーのアラーム状態表示／設定
PTP lock	PTP Lock アラームの状態表示／設定
ST-2110 IP stream error	ST-2110 ストリームエラーのアラーム状態表示／設定
Hitless switching	ヒットレススイッチングのアラーム状態表示／設定
Synchronization error	同期エラーのアラーム状態表示／設定
Video format error	映像フォーマットエラーのアラーム状態表示／設定
Network bandwidth error	ネットワーク使用帯域エラーのアラーム状態表示／設定

11) CONFIGURATION



11-1)Display

DISPLAY　無操作時(MENU 階層を抜けている時)に EL ディスプレイに表示する内容、スクリーンセーバー機能および OSD 機能を設定します。

SCREEN SAVER　スクリーンセーバー機能の有効/無効を設定できます。約10分の無操作時間を検出すると、下記のスクリーンセーバーが有効になります。

NAME ROLL:　機種名がスクロールするタイプのスクリーンセーバーです。
DIM 30%:　輝度が 30%に落ちるスクリーンセーバーです。
DIM 50%:　輝度が 50%に落ちるスクリーンセーバーです
DIM 70%:　輝度が 70%に落ちるスクリーンセーバーです。
OFF:　スクリーンセーバー機能を無効にします。

MAIN VIEW　無操作時(MENU 階層を抜けている時)に EL ディスプレイに表示する内容を設定できます。

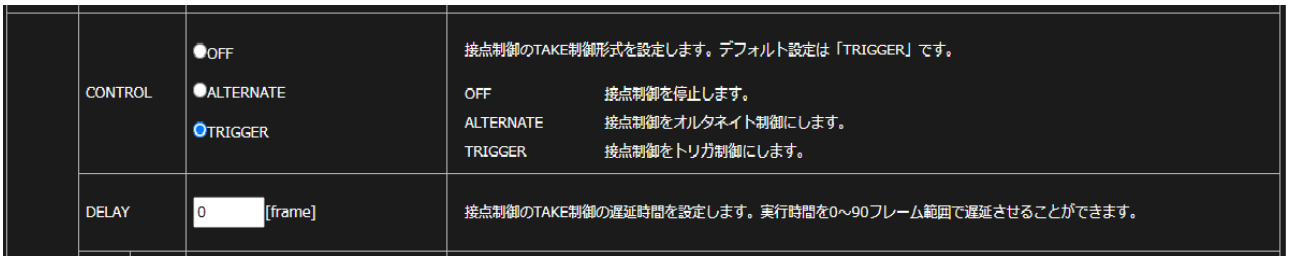
CHANNEL STATUS:　ネットワーク帯域表示、チャンネル毎のステータスを表示します。
SFP STATUS:　ネットワーク帯域表示、SFP 受光レベルを表示します。

OSD　PV 出力上に表示される OSD(オンスクリーンディスプレイ)の有効無効を設定します。

ENABLE:　DSK モード時、PV 出力に OSD を表示します。DSK2LINE、COMBINER モードでは常に非表示です。
DISABLE:　ODS を表示しません。

OSD BRIGHT　OSD の表示の輝度レベルを 10～109%の範囲で調整します。

11-1)Remote



REMOTE　本体外部接点入力に関する設定を行います。

CONTROL　本体外部接点入力方式(オルタネイト/トリガー)を選択します。

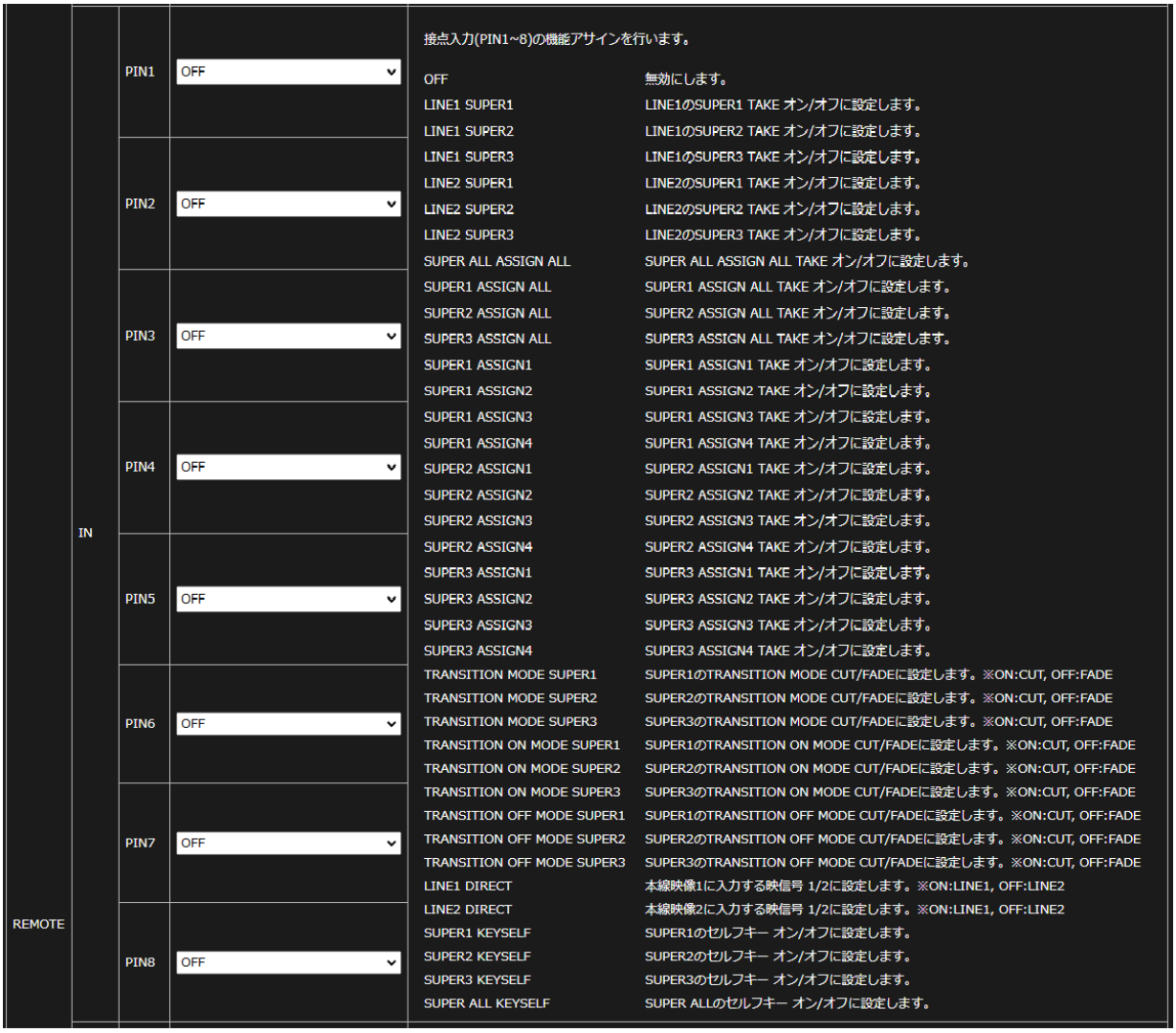
OFF:　外部接点制御を禁止します。

ALTERNATE:　接点制御をオルタネイト制御します。メイクしている間、スーパーON します。オープンでスーパーOFF します。

TRIGGER:　接点制御をトリガー制御します。接点をメイクすることで、スーパーON もう一度メイクすることでスーパーOFF します。

DELAY　本体外部接点制御の遅延時間を設定します。
外部接点から制御する際、実行時間を 0～90 フレーム範囲で遅延させることができます。
その際、スーパーの TALLY 出力も同時に遅延します。

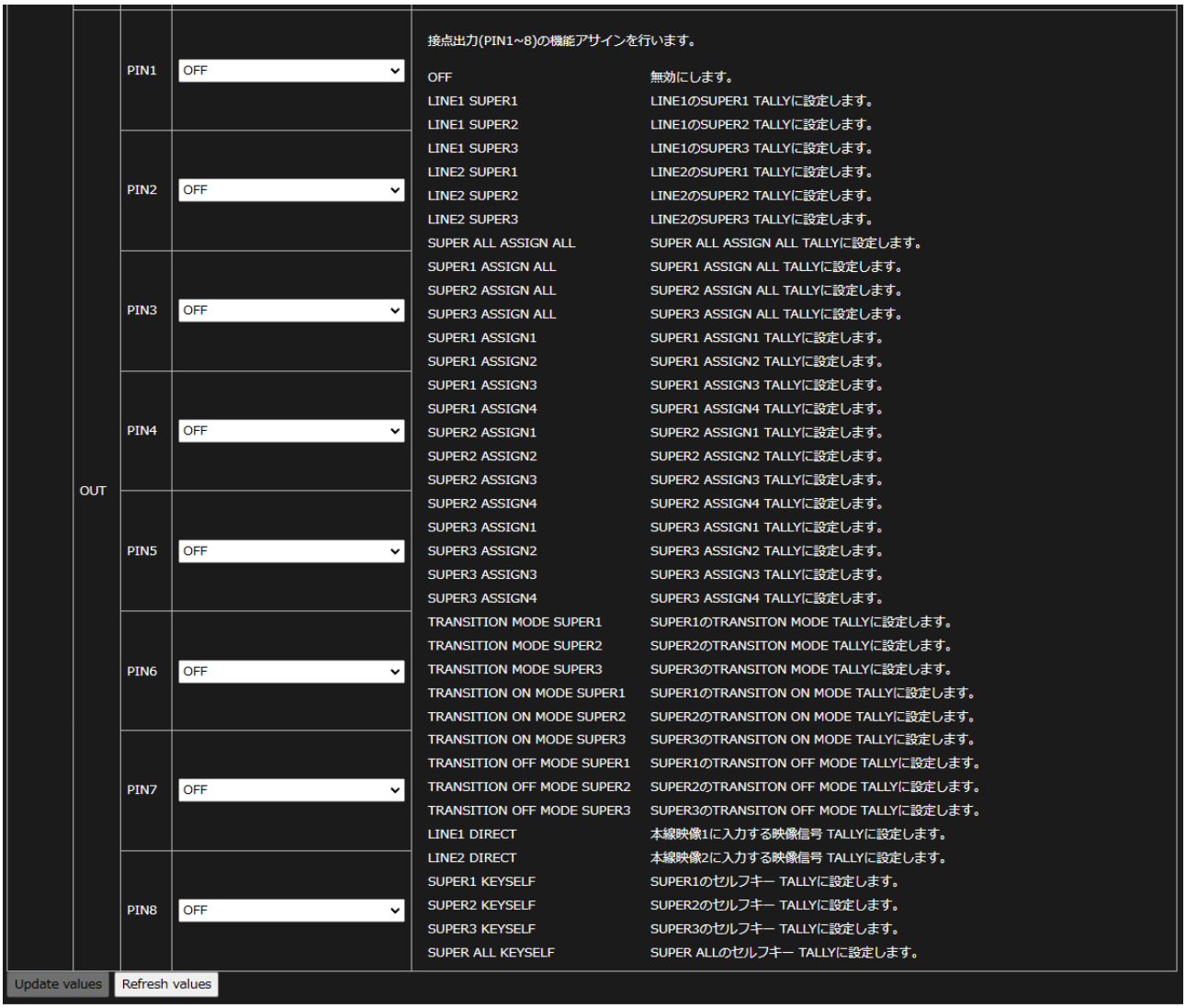
11-2)Remote in



IN	PIN1～8	本体外部接点入力 PIN1～PIN8 に対して機能を割り当てます。
	OFF:	REMOTE 入力を無効にします。
	LINE1 SUPER1:	LINE1 に対する SUPER1 の TAKE 制御に設定します。
	LINE1 SUPER2:	LINE1 に対する SUPER2 の TAKE 制御に設定します。
	LINE1 SUPER3:	LINE1 に対する SUPER3 の TAKE 制御に設定します。
	LINE2 SUPER1:	LINE2 に対する SUPER1 の TAKE 制御に設定します。
	LINE2 SUPER2:	LINE2 に対する SUPER2 の TAKE 制御に設定します。
	LINE2 SUPER3:	LINE2 に対する SUPER3 の TAKE 制御に設定します。
	SUPER ALL ASSIGN ALL:	LINE1、2 に対する全ての SUPER の TAKE 制御に設定します。
	SUPER1 ASSIGN ALL:	LINE1、2 に対する SUPER1 の TAKE 制御に設定します。
	SUPER2 ASSIGN ALL:	LINE1、2 に対する SUPER2 の TAKE 制御に設定します。
	SUPER3 ASSIGN ALL:	LINE1、2 に対する SUPER3 の TAKE 制御に設定します。
	SUPER1 ASSIGN1:	SUPER1 の ASSIGN1 設定に準じた TAKE 制御に設定します。
	SUPER1 ASSIGN2:	SUPER1 の ASSIGN2 設定に準じた TAKE 制御に設定します。
	SUPER1 ASSIGN3:	SUPER1 の ASSIGN3 設定に準じた TAKE 制御に設定します。
	SUPER1 ASSIGN4:	SUPER1 の ASSIGN4 設定に準じた TAKE 制御に設定します。
	SUPER2 ASSIGN1:	SUPER2 の ASSIGN1 設定に準じた TAKE 制御に設定します。
	SUPER2 ASSIGN2:	SUPER2 の ASSIGN2 設定に準じた TAKE 制御に設定します。
	SUPER2 ASSIGN3:	SUPER2 の ASSIGN3 設定に準じた TAKE 制御に設定します。
	SUPER2 ASSIGN4:	SUPER2 の ASSIGN4 設定に準じた TAKE 制御に設定します。
	SUPER3 ASSIGN1:	SUPER3 の ASSIGN1 設定に準じた TAKE 制御に設定します。
	SUPER3 ASSIGN2:	SUPER3 の ASSIGN2 設定に準じた TAKE 制御に設定します。
	SUPER3 ASSIGN3:	SUPER3 の ASSIGN3 設定に準じた TAKE 制御に設定します。
	SUPER3 ASSIGN4:	SUPER3 の ASSIGN4 設定に準じた TAKE 制御に設定します。
	TRANSITION MODE SUPER1:	SUPER1 の TRANSITION MODE の切り替え制御に設定します。
	TRANSITION MODE SUPER2:	SUPER2 の TRANSITION MODE の切り替え制御に設定します。
	TRANSITION MODE SUPER3:	SUPER3 の TRANSITION MODE の切り替え制御に設定します。
	TRANSITION ON MODE SUPER1:	SUPER1 の TRANSITION ON MODE の切り替え制御に設定します。
	TRANSITION ON MODE SUPER2:	SUPER2 の TRANSITION ON MODE の切り替え制御に設定します。
	TRANSITION ON MODE SUPER3:	SUPER3 の TRANSITION ON MODE の切り替え制御に設定します。
	TRANSITION OFF MODE SUPER1:	SUPER1 の TRANSITION OFF MODE の切り替え制御に設定します。
	TRANSITION OFF MODE SUPER2:	SUPER2 の TRANSITION OFF MODE の切り替え制御に設定します。
	TRANSITION OFF MODE SUPER3:	SUPER3 の TRANSITION OFF MODE の切り替え制御に設定します。
	LINE1 DIRECT:	本線映像 1 に入力する映像信号 1/2 の切り替え制御に設定します。
	LINE2 DIRECT:	本線映像 2 に入力する映像信号 1/2 の切り替え制御に設定します。
	SUPER1 KEYSELF:	SUPER1 のセルフキーオン/オフの切り替え制御に設定します。
	SUPER2 KEYSELF:	SUPER2 のセルフキーオン/オフの切り替え制御に設定します。
	SUPER3 KEYSELF:	SUPER3 のセルフキーオン/オフの切り替え制御に設定します。
	SUPER ALL KEYSELF:	全ての SUPER のセルフキーオン/オフの切り替え制御に設定します。
	CUT SUPER ALL ASSIGN ALL	全ての SUPER の TRANSITION MODE の CUT に切り替え、LINE1、2 に対する全ての SUPER の TAKE 制御に設定します。
	CUT SUPER1 ASSIGN ALL	SUPER1 の TRANSITION MODE の CUT に切り替え、および LINE1、2 に対する SUPER1 の TAKE 制御に設定します。
	CUT SUPER2 ASSIGN ALL	SUPER2 の TRANSITION MODE の CUT に切り替え、および LINE1、2 に対する SUPER2 の TAKE 制御に設定します。

CUT SUPER3 ASSIGN ALL	SUPER3 の TRANSITION MODE の CUT に切り替え、および LINE1、2 に対する SUPER3 の TAKE 制御に設定します。
FADE SUPER ALL ASSIGN ALL	全ての SUPER の TRANSITION MODE の FADE に切り替え、LINE1、2 に対する全ての SUPER の TAKE 制御に設定します。
FADE SUPER1 ASSIGN ALL	SUPER1 の TRANSITION MODE の FADE に切り替え、および LINE1、2 に対する SUPER1 の TAKE 制御に設定します。
FADE SUPER2 ASSIGN ALL	SUPER2 の TRANSITION MODE の FADE に切り替え、および LINE1、2 に対する SUPER2 の TAKE 制御に設定します。
FADE SUPER3 ASSIGN ALL	SUPER3 の TRANSITION MODE の FADE に切り替え、および LINE1、2 に対する SUPER3 の TAKE 制御に設定します。

11-3)Remote out

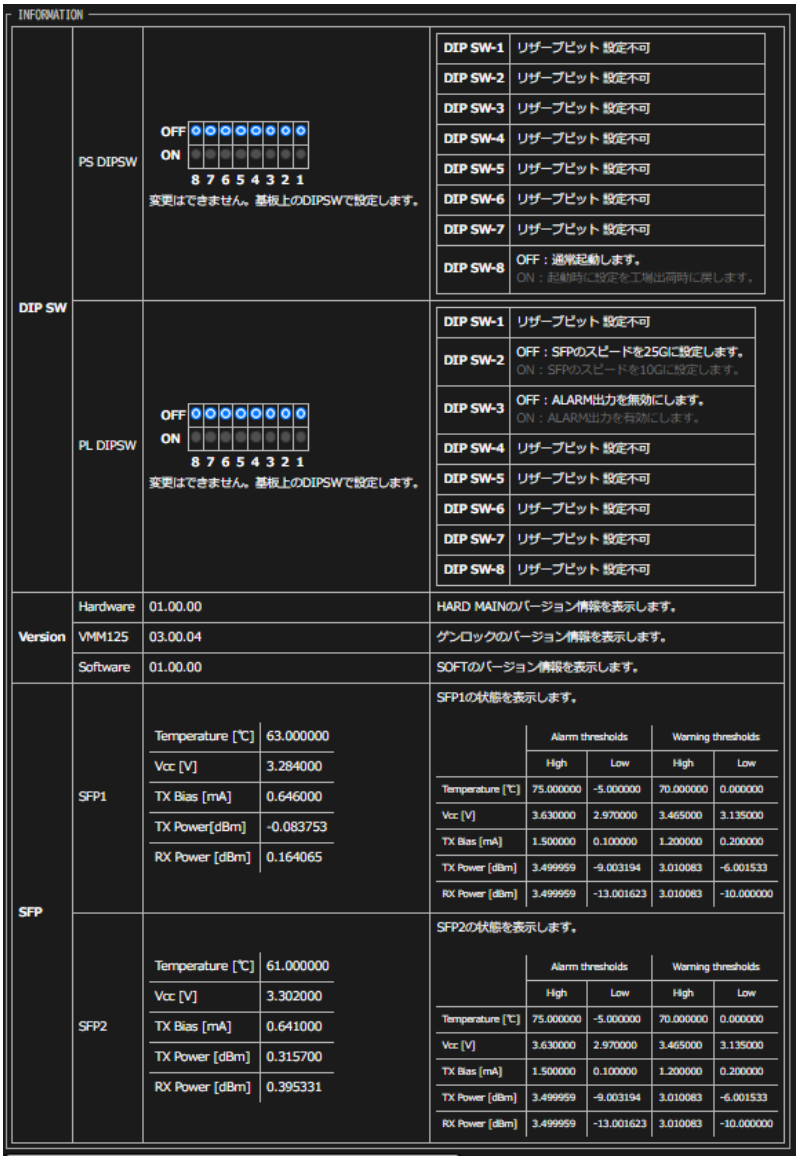


OUT　PIN1～8　本体外部接点出力 PIN1～PIN8 のピンアサインを選択します。

- OFF: REMOTE 入力を無効にします。
- LINE1 SUPER1: LINE1 に対する SUPER1 の TALLY 出力に設定します。
- LINE1 SUPER2: LINE1 に対する SUPER2 の TALLY 出力に設定します。
- LINE1 SUPER3: LINE1 に対する SUPER3 の TALLY 出力に設定します。
- LINE2 SUPER1: LINE2 に対する SUPER1 の TALLY 出力に設定します。
- LINE2 SUPER2: LINE2 に対する SUPER2 の TALLY 出力に設定します。
- LINE2 SUPER3: LINE2 に対する SUPER3 の TALLY 出力に設定します。
- SUPER ALL ASSIGN ALL: LINE1、2 に対する全ての SUPER の TALLY 出力に設定します。
- SUPER1 ASSIGN ALL: LINE1、2 に対する SUPER1 の TALLY 出力に設定します。
- SUPER2 ASSIGN ALL: LINE1、2 に対する SUPER2 の TALLY 出力に設定します。
- SUPER3 ASSIGN ALL: LINE1、2 に対する SUPER3 の TALLY 出力に設定します。
- SUPER1 ASSIGN1: SUPER1 の ASSIGN1 設定に準じた TALLY 出力に設定します。
- SUPER1 ASSIGN2: SUPER1 の ASSIGN2 設定に準じた TALLY 出力に設定します。
- SUPER1 ASSIGN3: SUPER1 の ASSIGN3 設定に準じた TALLY 出力に設定します。
- SUPER1 ASSIGN4: SUPER1 の ASSIGN4 設定に準じた TALLY 出力に設定します。
- SUPER2 ASSIGN1: SUPER2 の ASSIGN1 設定に準じた TALLY 出力に設定します。
- SUPER2 ASSIGN2: SUPER2 の ASSIGN2 設定に準じた TALLY 出力に設定します。
- SUPER2 ASSIGN3: SUPER2 の ASSIGN3 設定に準じた TALLY 出力に設定します。
- SUPER2 ASSIGN4: SUPER2 の ASSIGN4 設定に準じた TALLY 出力に設定します。
- SUPER3 ASSIGN1: SUPER3 の ASSIGN1 設定に準じた TALLY 出力に設定します。
- SUPER3 ASSIGN2: SUPER3 の ASSIGN2 設定に準じた TALLY 出力に設定します。

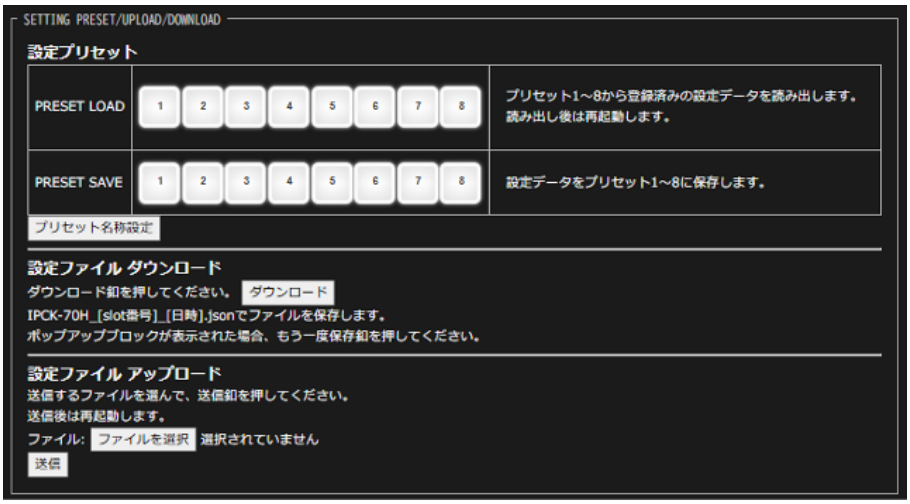
SUPER3 ASSIGN3:	SUPER3 の ASSIGN3 設定に準じた TALLY 出力に設定します。
SUPER3 ASSIGN4:	SUPER3 の ASSIGN4 設定に準じた TALLY 出力に設定します。
TRANSITION MODE SUPER1:	SUPER1 の TRANSITION MODE の切り替えの TALLY 出力に設定します。
TRANSITION MODE SUPER2:	SUPER2 の TRANSITION MODE の切り替えの TALLY 出力に設定します。
TRANSITION MODE SUPER3:	SUPER3 の TRANSITION MODE の切り替えの TALLY 出力に設定します。
TRANSITION ON MODE SUPER1:	SUPER1 の TRANSITION ON MODE の切り替えの TALLY 出力に設定します。
TRANSITION ON MODE SUPER2:	SUPER2 の TRANSITION ON MODE の切り替えの TALLY 出力に設定します。
TRANSITION ON MODE SUPER3:	SUPER3 の TRANSITION ON MODE の切り替えの TALLY 出力に設定します。
TRANSITION OFF MODE SUPER1:	SUPER1 の TRANSITION OFF MODE の切り替えの TALLY 出力に設定します。
TRANSITION OFF MODE SUPER2:	SUPER2 の TRANSITION OFF MODE の切り替えの TALLY 出力に設定します。
TRANSITION OFF MODE SUPER3:	SUPER3 の TRANSITION OFF MODE の切り替えの TALLY 出力に設定します。
LINE1 DIRECT:	本線映像 1 に入力する映像信号 1/2 の切り替えの TALLY 出力に設定します。
LINE2 DIRECT:	本線映像 2 に入力する映像信号 1/2 の切り替えの TALLY 出力に設定します。
SUPER1 KEYSELF:	SUPER1 のセルフキーオン/オフの切り替えの TALLY 出力に設定します。
SUPER2 KEYSELF:	SUPER2 のセルフキーオン/オフの切り替えの TALLY 出力に設定します。
SUPER3 KEYSELF:	SUPER3 のセルフキーオン/オフの切り替えの TALLY 出力に設定します。
SUPER ALL KEYSELF::	全ての SUPER のセルフキーオン/オフの切り替えの TALLY 出力に設定します。
CUT SUPER ALL ASSIGN ALL	LINE1、2 に対する全ての SUPER の TALLY 出力に設定します。
CUT SUPER1 ASSIGN ALL	LINE1、2 に対する SUPER1 の TALLY 出力に設定します。
CUT SUPER2 ASSIGN ALL	LINE1、2 に対する SUPER2 の TALLY 出力に設定します。
CUT SUPER3 ASSIGN ALL	LINE1、2 に対する SUPER3 の TALLY 出力に設定します。
FADE SUPER ALL ASSIGN ALL	LINE1、2 に対する全ての SUPER の TALLY 出力に設定します。
FADE SUPER1 ASSIGN ALL	LINE1、2 に対する SUPER1 の TALLY 出力に設定します。
FADE SUPER2 ASSIGN ALL	LINE1、2 に対する SUPER2 の TALLY 出力に設定します。
FADE SUPER3 ASSIGN ALL	LINE1、2 に対する SUPER3 の TALLY 出力に設定します。

12) INFORMATION



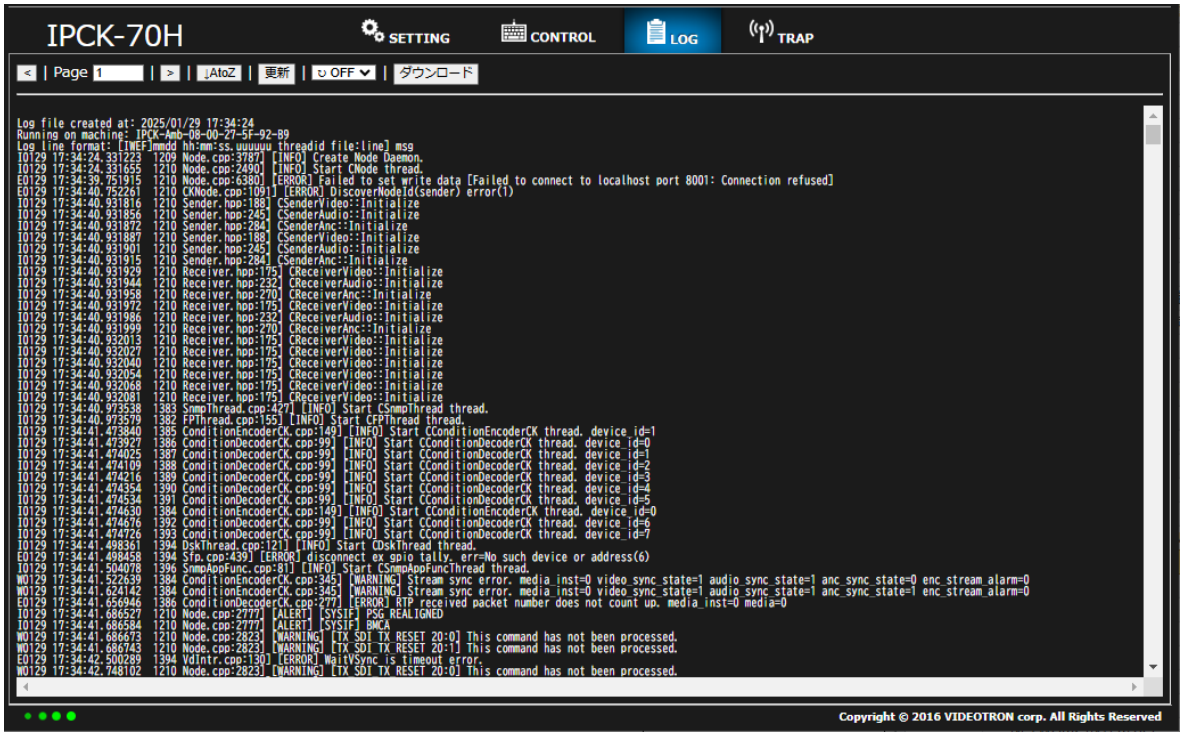
DIPSW	PS DIPSW	PS ディップスイッチの状態を表示します。
	PL DIPSW	PL ディップスイッチの状態を表示します。
Version	Hardware	ハードウェアバージョンを表示します。
	VMM125	サブボードバージョンを表示します。
	Software	ソフトウェアバージョンを表示します。
SFP	SFP1	SFP1 の状態(温度、電圧 Tx バイアス、送受信光強度)を表示します。
	SFP2	SFP2 の状態(温度、電圧 Tx バイアス、送受信光強度)を表示します。

13) SETTING UPLOAD/DOWNLOAD



PRESET LOAD	保存した設定プリセットを呼び出します。 ※呼出し後に再起動します。
PRESET SAVE	設定をプリセットに保存します。
プリセット名称設定	プリセットボタン上に表示する文字を設定します。
設定ファイルダウンロード	設定ファイルを PC にダウンロードします。
設定ファイルアップロード	設定ファイルをアップロードし反映します。
ファイルを選択ボタン	ファイル選択ダイアログから設定ファイルを選択します。
送信ボタン	選択した設定ファイルを送信・反映します。 ※送信後に再起動します。

3.LOG



ログに関して下記の形式で出力されます。

例)

I0915 15:43:01.330927 1062 VIPDaemon.cpp:2265] *** update tx steam enable ch=0 media=VIDEO enable=OFF

<1 列> <2 列> <3 列> <4 列> <5 列>

説明)

<1 列>

ログレベル{Log Levels, I for INFO, W for WARNING, E for ERROR and `F` for FATAL]}

日付 mmdd

<2 列>

時刻 hh:mm:ss.uuuuuu

<3 列>

プロセス/スレッド ID

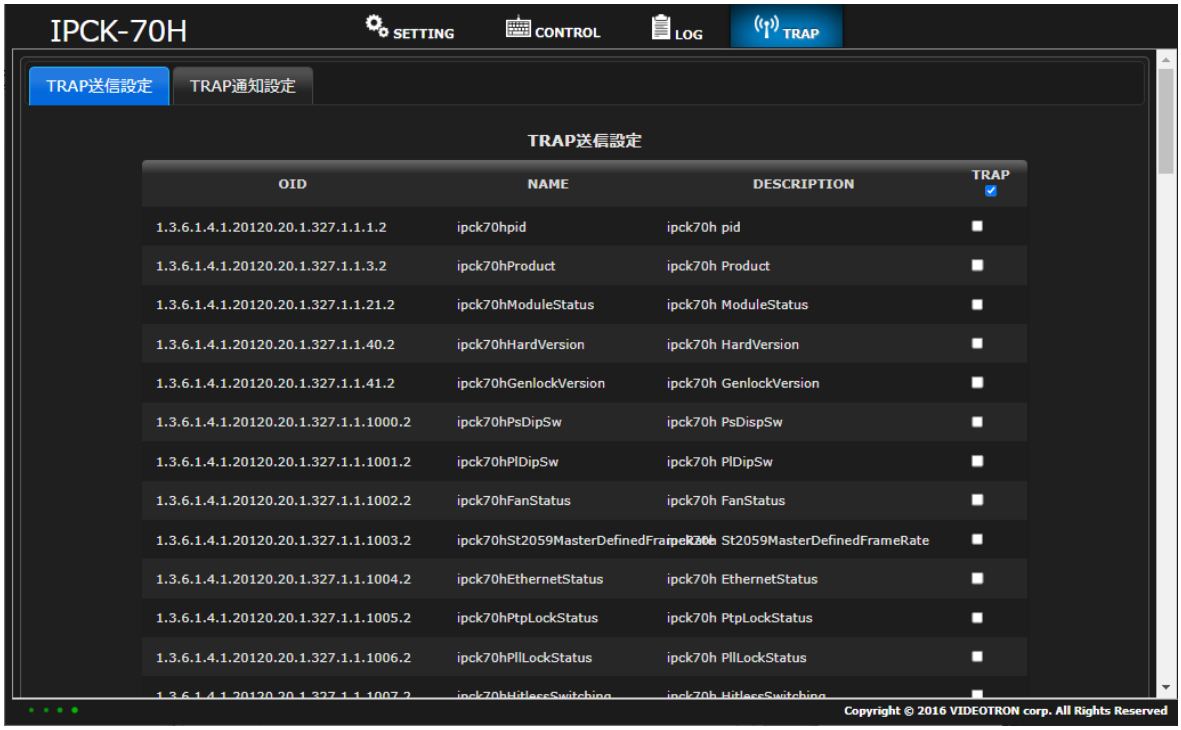
<4 列>

ファイル:行数

<5 列以降>

メッセージ

4.TRAP



・TRAP 送信設定

TRAP のチェックボックスにチェックを入れることによりトラップが有効になります。

項目は SETTING と同じ項目となっております。

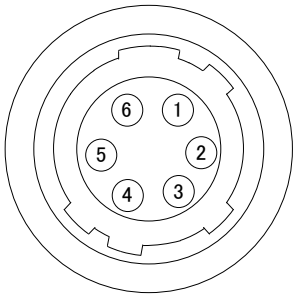
詳細は Webserver の取扱説明書をご覧ください。

・TRAP 通知設定

詳細は Webserver の取扱説明書をご覧ください。

5. 外部インターフェース

1. REMOTO



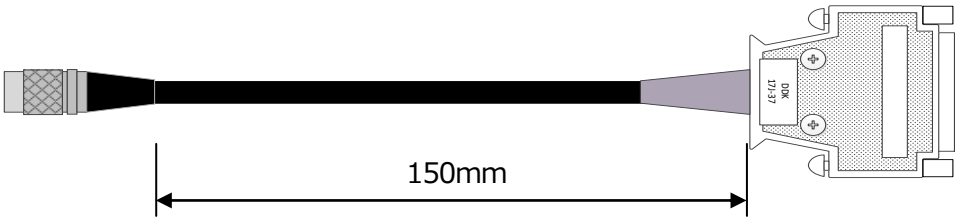
筐体背面から見たピン番号
HR10A-7 R-6S　ヒロセ電機社製

NO.	信号名称	I/O	機能
1	STATUS	I	GPIO-01 STATUS
2	SCL	O	I2C SCL
3	SDA	IO	I2C_SDA
4	RESET	O	GPIO-01 RESET
5	+5V	O	VCC
6	GND	GND	GND

REMOTコネクターから専用のオプションケーブル GPIO-01 を接続します。

2. GPIO-01（オプション）

1.外観図



2. ピンアサイン

HR10A-7R-7S

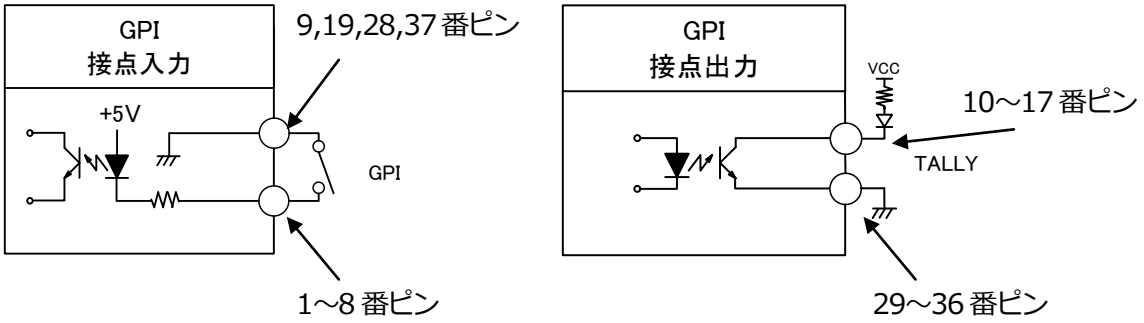
NO.	信号名称	I/O
1	STATUS	I
2	SCL	O
3	SDA	IO
4	RESET	O
5	+5V	O
6	GND	GND

Dsub-37S

NO.	信号名称	I/O	No.	信号名称	I/O
1	GPI1	I	20	NC	-
2	GPI2	I	21	NC	-
3	GPI3	I	22	NC	-
4	GPI4	I	23	NC	-
5	GPI5	I	24	NC	-
6	GPI6	I	25	NC	-
7	GPI7	I	26	NC	-
8	GPI8	I	27	NC	-
9	GND	GND	28	GND	GND
10	TALLY1	O	29	TALLY1_COM	COM
11	TALLY2	O	30	TALLY2_COM	COM
12	TALLY3	O	31	TALLY3_COM	COM
13	TALLY4	O	31	TALLY4_COM	COM
14	TALLY5	O	33	TALLY5_COM	COM
15	TALLY6	O	34	TALLY6_COM	COM
16	TALLY7	O	35	TALLY7_COM	COM
17	TALLY8	O	36	TALLY8_COM	COM
18	NC	-	37	GND	GND
19	GND	GND			

※ご使用の際は必ず本体電源を OFF にしてオプションケーブルを接続してから電源を再投入してください。

電源投入したままケーブルの抜き差しを行うとケーブル内部の部品が破損する恐れがあります。

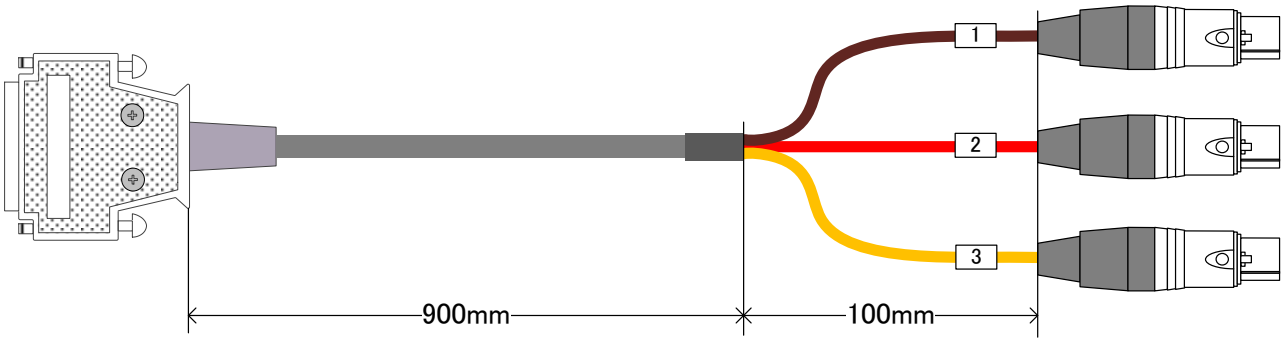


注）GPI はオルタネイト動作になります。メイクでオン/オフします。

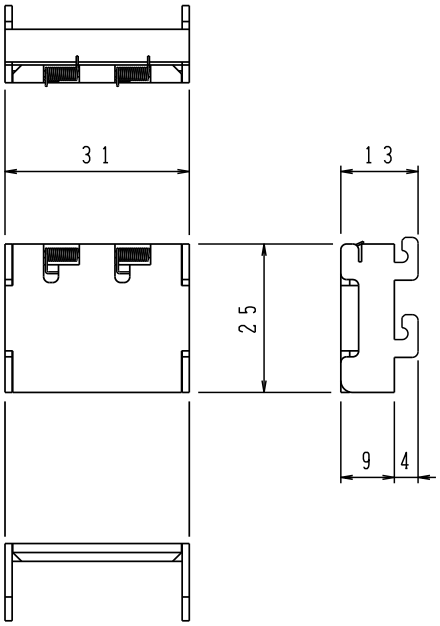
注）接点入力を TTL で制御する際は、吸い込み電流が 12mA まで耐えられるデバイスで駆動してください。

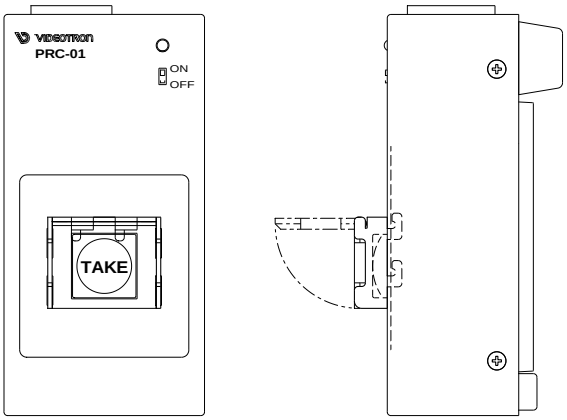
注）接点出力の絶対最大定格は 60V、300mA です。外部抵抗で電流を 300mA 以下に制限してください。

3. IPCK-70-03(オプション)



4. CK-70W-07(オプション)





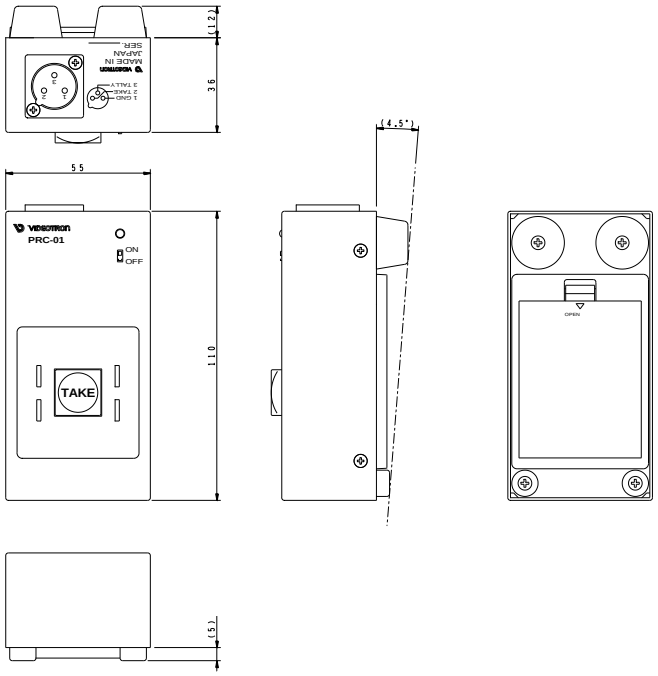
蓋は透明なアクリル板です

〔CK-70W-07 実装イメージ〕

※注.外観及び仕様は変更することがあります

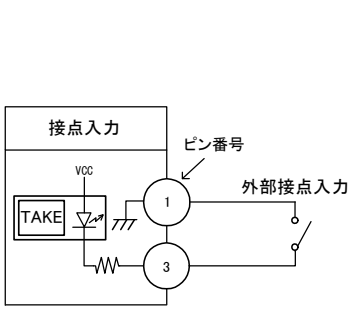
5. PRC-01(オプション)

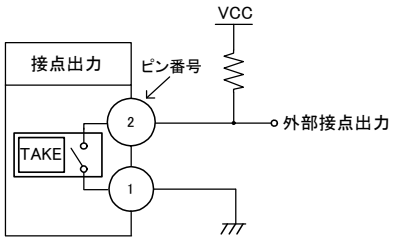
1.外観図

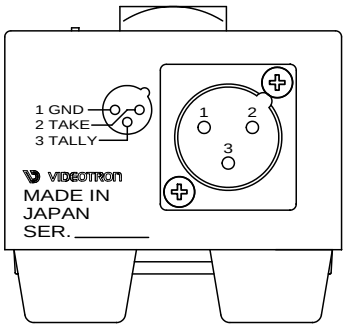


2. ピンアサイン

ピン番	I/O	信号	機能
1	−	GND	
2	O	接点出力	TAKE スイッチを押すと 1−2pin がショートします
3	I	接点入力	1−3pin をショートすると TAKE スイッチが赤色点灯します。







※ 接点出力の絶対最大定格は 12V、100mA です。外部抵抗で電流を 100mA 以下に制限してください。

※ TTL 信号で制御する際は、吸い込み電流が 10mA まで耐えられるデバイスで駆動してください。

6. SNMP

1. MIB データ

MIB データは以下の表に対応します。

[1.3.6.1.4.1.20120.20.1.327.1.1]左記 OID に項番が続き最後に index となります。index はスロットナンバー1～10 となります。

[1.3.6.1.4.1.20120.20.1.327.1.1.項番.index]

ex. pid {1.3.6.1.4.1.20120.20.1.327.1.1.1.1}

項番	オブジェクト識別子	アクセス	バイト数	規格	実装例	SYNTAX	更新	トラップ
1	pid	R/O	80	プログラム情報	char PID[5][16]の内容 製品コード IPCK-70H 会社名 VIDEOTRON Corp バージョン 01.00.00	SNMP_LTYP_STRING		
3	Product	R/O	4	機種コード	327(d)=147(h)	SNMP_LTYP_INTEGER		
21	ModuleStatus	R/O	4	モジュールの状態を通知します。 1= DipSw No.8 の初期化が有効	DipSw No.8 オンの場合 1	SNMP_LTYP_INTEGER		○
40	hard1 Ver.	R/O	4	FPGA1 のバージョン情報 bit0～31:FPGA バージョン情報	01.00.00	SNMP_LTYP_STRING		
41	GenlockVersion	R/O	4	ゲンロック FPGA のバージョン情報(アスキーコード)	03.00.04	SNMP_LTYP_STRING		
1000	PS DIP SW	R/O	4	基板上の PS ディップスイッチステータス Bit0～7:0=OFF 1=ON	0	SNMP_LTYP_INTEGER		
1001	PL DIP SW	R/O	4	基板上の PL ディップスイッチステータス Bit0～7:0=OFF 1=ON	0	SNMP_LTYP_INTEGER		
1002	FAN status	R/O	4	FAN の回転数 通常時の 70%を下回った時点で異常となります。 0 = FAN が正常 1 = FAN に異常を検知	FAN が正常動作時 0	SNMP_LTYP_INTEGER	○	○
1003	ST-2059 Master defined frame rate	R/O	4	ST-2059 基準フレームレート 0 = NTSC(59.94Hz) 1 = PAL(50Hz/60Hz)	NTSC(59.94Hz)の場合 0	SNMP_LTYP_INTEGER	○	○
1004	Ethernet status	R/O	4	イーサーネットのステータスを表示 0 = GE1、GE2 共にリンクを検出 1 = GE1 のリンクが未検出 2 = Ge2 のリンクが未検出 3 = GE1、GE2 のリンクが未検出	GE1、GE2 共にリンクが検出されている場合 0	SNMP_LTYP_INTEGER	○	○
1005	PTP Lock status	R/O	4	PTP のロック状態を通知します。 0 = Locked 50ns. 1 = Locked 100ns. 2 = Locked 200ns. 3 = Locked 500ns. 4 = Unlockd	PTP が 50ns 以内でロックされている状態 0	SNMP_LTYP_INTEGER	○	○
1006	欠番							
1007	Hitless switching	R/O	4	Hitless switching の状態を通知します。 0 =未稼働 3 = GE1, GE2 共に稼働	Hitless switching が稼働している状態 3	SNMP_LTYP_INTEGER	○	○
1008	Network bandwidth	R/O	4	ネットワークの使用帯域(1/100000)を取得します。 ※各チャンネルの設定で使用されるネットワークの帯域	20Gbps の帯域が使われる場合 20000000	SNMP_LTYP_INTEGER	○	○
1009	SDI Input phase	R/O	4	Enc の PTP に対する SDI VIDEO INPUT の位相(ns)を表示します。	SDI Input Phase が-100 の場合 -100	SNMP_LTYP_INTEGER	○	○

1010	System alarm status	R/O	4	システムアラームの状態を表示(HEX)します。 0=正常時 1=異常時 Bit1 ： Ethernet1 Link アラーム Bit2 ： Ethernet2 Link アラーム Bit3 ： Tip cooling FAN アラーム Bit4 ： FCS error count アラーム未使用 Bit5 ： 未使用 Bit6 ： Rx power level アラーム Bit7 ： PTP lock アラーム Bit8 ： 未使用 Bit9 ： 未使用 Bit10 ： 未使用 Bit11 ： IP Stream アラーム Bit12 ： Hitless sw アラーム Bit13 ： Stream Syncronization アラーム Bit14 ： SDI video format アラーム Bit15 ： 未使用 Bit16 ： Net bandwidth アラーム Bit17 ： 未使用	正常に動作している場合 0x00000000	SNMP_LTYP_INTEGER	○	○
1011	SFP1 Mac address	R/O	18	SFP1 の Mac address を取得します。	SFP1 Mac address "00:0e:88:00:00:00"	SNMP_LTYP_STRING		
1012	SFP2 Mac address	R/O	18	SFP2 の Mac address を取得します。	SFP2 Mac address "00:0e:88:00:00:01"	SNMP_LTYP_STRING		
1013	SFP1 IP address	R/O	4	SFP1 の現在有効な IP address を取得します。	IP address "192.168.0.0"の場合 0x0C 0xA8 0x00 0x00	SNMP_LTYP_IPADDRESS	○	○
1014	SFP2 IP aaddress	R/O	4	SFP2 の現在有効な IP address を取得します。	IP address "192.168.0.1"の場合 0x0C 0xA8 0x00 0x01	SNMP_LTYP_IPADDRESS	○	○
1015	SFP1 subnet mask	R/O	4	SFP1 の現在有効な subnet mask を取得します。	Mac address"255.255.255.0"の場合 0xFF 0xFF 0xFF 0x00	SNMP_LTYP_IPADDRESS	○	○
1016	SFP2 subnet mask	R/O	4	SFP2 の現在有効な subnet mask を取得します。	Mac address"255.255.255.0"の場合 0xFF 0xFF 0xFF 0x00	SNMP_LTYP_IPADDRESS	○	○
1017	SFP1 Gateway	R/O	4	SFP1 の現在有効な Gateway を取得します。	Gateway"192.168.0.254"の場合 0x0C 0xA8 0x00 0xFE	SNMP_LTYP_IPADDRESS	○	○
1018	SFP2 Gateway	R/O	4	SFP2 の現在有効な Gateway を取得します。	Gateway"192.168.0.254"の場合 0x0C 0xA8 0x00 0xFE	SNMP_LTYP_IPADDRESS	○	○
1019	SFP1 Status	R/O	4	SFP1 の状態をビット(HEX)で取得します。 Bit0 ： TX disable 0=ENABLE 1=DISABLE Bit1～2 ： Raate select 0=25Gbps 3=10Gbps Bit5 ： Module absent. 0=OK 1=NONE Bit6 ： Receiver loss of signal indication. 0=Hi level 1=Low level Bit7 ： Transmitter fault. 0=NO ERROR 1=ERROR	SFP1 が 25G で正常に動作している場合 0x00000000	SNMP_LTYP_INTEGER	○	○
1020	SFP1 Alarm status	R/O	4	SFP1 のアラーム状態をビット(HEX)で取得します。 Bit6 ： RX POWER LOW ALARM Bit7 ： RX POWER HIGH ALARM Bit8 ： TX POWER LOW ALARM Bit9 ： TX POWER HIGH ALARM Bit10 ： TX BIAS LOW ALARM Bit11 ： TX BIAS HIGH ALARM Bit12 ： VCC LOW ALARM Bit13 ： VCC HIGH ALARM Bit14 ： TEMP LOW ALARM Bit15 ： TEMP HIGH ALARM	SFP1 が正常に動作している場合 0x00000000	SNMP_LTYP_INTEGER	○	○

1021	SFP1 Warning status	R/O	4	SFP1 のワーニング状態をビット(HEX)で取得します。 Bit6 ： RX POWER LOW WARNING Bit7 ： RX POWER HIGH WARNING Bit8 ： TX POWER LOW WARNING Bit9 ： TX POWER HIGH WARNING Bit10 ： TX BIAS LOW WARNING Bit11 ： TX BIAS HIGH WARNING Bit12 ： VCC LOW WARNING Bit13 ： VCC HIGH WARNING Bit14 ： TEMP LOW WARNING Bit15 ： TEMP HIGH WARNING	SFP1 が正常に動作している場合 0x00000000	SNMP_LTYP_INTEGER	○	○
1022	SFP1 Monitoring TEMP	R/O	4	SFP1 のトランシーバー温度の値(1/100000)を取得します。 −128 ° C ～ +128 ° C (± 3° C)	SFP1 が 46.000000° C で動作している場合 46000000	SNMP_LTYP_INTEGER	○	○
1023	SFP1 Monitoring VOLTAGE	R/O	4	SFP1 のトランシーバー電源電圧の値(1/100000)を取得します。 0 ～ +6.55 V (±100mV)	SFP1 が 3.313000V で動作している場合 3313000	SNMP_LTYP_INTEGER	○	○
1024	SFP1 Monitoring TX BIAS	R/O	4	SFP1 の TX バイアス電流の値(1/100000)を取得します。 0 ～ 131 mA (±10%)	SFP1 が 0.630800mA で動作している場合 630800	SNMP_LTYP_INTEGER	○	○
1025	SFP1 Monitoring TX_POWER	R/O	4	SFP1 の TX 出力電力の測定値の値(1/100000)を取得します。 −40 ～ +8.2 dBm (±3dB)	SFP1 が 0.264107dBm で動作している場合 264107	SNMP_LTYP_INTEGER	○	○
1026	SFP1 Monitoring RX_POWER	R/O	4	SFP1 の RX 受信平均光パワーの値(1/100000)を取得します。 −40 ～ +8.2 dBm (±3dB)	SFP1 が−1.038597dBm で動作している場合 −1038597	SNMP_LTYP_INTEGER	○	○
1027	SFP2 Status	R/O	4	SFP2 の状態をビット(HEX)で取得します。 Bit0 ： TX disable 0=ENABLE 1=DISABLE Bit1～2 ： Raate select 0=25Gbps 3=10Gbps Bit5 ： Module absent. 0=OK 1=NONE Bit6 ： Receiver loss of signal indication. 0=Hi level 1=Low level Bit7 ： Transmitter fault. 0=NO ERROR 1=ERROR	SFP2 が 25G で正常に動作している場合 0x00000000	SNMP_LTYP_INTEGER	○	○
1028	SFP2 Alarm status	R/O	4	SFP2 のアラーム状態をビット(HEX)で取得します。 Bit6 ： RX POWER LOW ALARM Bit7 ： RX POWER HIGH ALARM Bit8 ： TX POWER LOW ALARM Bit9 ： TX POWER HIGH ALARM Bit10 ： TX BIAS LOW ALARM Bit11 ： TX BIAS HIGH ALARM Bit12 ： VCC LOW ALARM Bit13 ： VCC HIGH ALARM Bit14 ： TEMP LOW ALARM Bit15 ： TEMP HIGH ALARM	SFP2 が正常に動作している場合 0x00000000	SNMP_LTYP_INTEGER	○	○
1029	SFP2 Warning status	R/O	4	SFP2 のワーニング状態をビット(HEX)で取得します。 Bit6 ： RX POWER LOW WARNING Bit7 ： RX POWER HIGH WARNING Bit8 ： TX POWER LOW WARNING Bit9 ： TX POWER HIGH WARNING Bit10 ： TX BIAS LOW WARNING Bit11 ： TX BIAS HIGH WARNING Bit12 ： VCC LOW WARNING Bit13 ： VCC HIGH WARNING Bit14 ： TEMP LOW WARNING Bit15 ： TEMP HIGH WARNING	SFP2 が正常に動作している場合 0x00000000	SNMP_LTYP_INTEGER	○	○

1030	SFP2 Monitoring TEMP	R/O	4	SFP2 のトランシーバー温度の値(1/100000)を取得します。 −128 ° C ～ +128 ° C(± 3° C)	SFP2 が 46.000000° C で動作している場合 46000000	SNMP_LTYP_INTEGER	○	○
1031	SFP2 Monitoring VOLTAGE	R/O	4	SFP2 のトランシーバー電源電圧の値(1/100000)を取得します。 0 ～ +6.55 V (±100mV)	SFP2 が 3.313000V で動作している場合 3313000	SNMP_LTYP_INTEGER	○	○
1032	SFP2 Monitoring TX BIAS	R/O	4	SFP2 の TX バイアス電流の値(1/100000)を取得します。 0 ～ 131 mA (±10%)	SFP2 が 0.630800mA で動作している場合 630800	SNMP_LTYP_INTEGER	○	○
1033	SFP2 Monitoring TX_POWER	R/O	4	SFP2 の TX 出力電力の測定値の値(1/100000)を取得します。 −40 ～ +8.2 dBm (±3dB)	SFP2 が 0.264107dBm で動作している場合 264107	SNMP_LTYP_INTEGER	○	○
1034	SFP2 Monitoring RX_POWER	R/O	4	SFP2 の RX 受信平均光パワーの値(1/100000)を取得します。 −40 ～ +8.2 dBm (±3dB)	SFP2 が−1.038597dBm で動作している場合 −1038597	SNMP_LTYP_INTEGER	○	○
1035	PTP Curmet time Instance	R/O	4	PTP の現在の時刻を取得します。	現在の時刻が 6:00:00.00 2160000	SNMP_LTYP_STRING	○	○
1036	PTP Master clock ID	R/O	4	PTP のマスタークロック ID を取得します。	マスタークロック ID "00:09:0D:FF:FE:00:F8:A1"	SNMP_LTYP_STRING	○	○
1100	Line1 in Used status	R/O	4	Line1 in の有効・無効状態を通知します。 0 = 無効 1 = 有効	Line1 in が有効の場合 1	SNMP_LTYP_INTEGER	○	○
1101	Line1 in Detected Format	R/O	4	Line1 in で検出されたフォーマット ※フォーマットステータス表を参照	1080i/59.94 を検出 2	SNMP_LTYP_INTEGER	○	○
1102	Line1 in ST-2110 Status	R/O	4	Line1 in の ST-2110 の稼働状態を通知 (1 ビット単位のビットフラグ) 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中	VIDEO、AUDIO、ANC が全て稼働中 7	SNMP_LTYP_INTEGER	○	○
1103	Line1 in Synchronization status	R/O	4	Line1 in のデータ入力への同期ステータス 0 = 非同期 1 = 同期中	同期中 1	SNMP_LTYP_INTEGER	○	○
1110	Line2 in Used status	R/O	4	Line2 in の有効・無効状態を通知します。 0 = 無効 1 = 有効	Line2 in が有効の場合 1	SNMP_LTYP_INTEGER	○	○
1111	Line2 in Detected Format	R/O	4	Line2 in で検出されたフォーマット ※フォーマットステータス表を参照	1080i/59.94 を検出 2	SNMP_LTYP_INTEGER	○	○
1112	Line2 in ST-2110 Status	R/O	4	Line2 in の ST-2110 の稼働状態を通知 (1 ビット単位のビットフラグ) 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中	VIDEO、AUDIO、ANC が全て稼働中 7	SNMP_LTYP_INTEGER	○	○
1113	Line2 in Synchronization status	R/O	4	Line2 in のデータ入力への同期ステータス 0 = 非同期 1 = 同期中	同期中 1	SNMP_LTYP_INTEGER	○	○
1120	Fill1 Used status	R/O	4	Fill1 の有効・無効状態を通知します。 0 = 無効 1 = 有効	Fill1 が有効の場合 1	SNMP_LTYP_INTEGER	○	○
1121	Fill1 Detected Format	R/O	4	Fill1 で検出されたフォーマット ※フォーマットステータス表を参照	1080i/59.94 を検出 2	SNMP_LTYP_INTEGER	○	○

1122	Fill1 ST-2110 Status	R/O	4	Fill1 の ST-2110 の稼働状態を通知 (1 ビット単位のビットフラグ) 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中	VIDEO、AUDIO、ANC が全て稼働中 7	SNMP_LTYP_INTEGER	○	○
1123	Fill1 Synchronization status	R/O	4	Fill1 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中	同期中 1	SNMP_LTYP_INTEGER	○	○
1130	Key1 Used status	R/O	4	Key1 の有効・無効状態を通知します。 0 = 無効 1 = 有効	Key1 が有効の場合 1	SNMP_LTYP_INTEGER	○	○
1131	Key1 Detected Format	R/O	4	Key1 で検出されたフォーマット ※フォーマットステータス表を参照	1080i/59.94 を検出 2	SNMP_LTYP_INTEGER	○	○
1132	Key1 ST-2110 Status	R/O	4	Key1 の ST-2110 の稼働状態を通知 (1 ビット単位のビットフラグ) 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中	VIDEO、AUDIO、ANC が全て稼働中 7	SNMP_LTYP_INTEGER	○	○
1133	Key1 Synchronization status	R/O	4	Key1 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中	同期中 1	SNMP_LTYP_INTEGER	○	○
1140	Fill2 Used status	R/O	4	Fill2 の有効・無効状態を通知します。 0 = 無効 1 = 有効	Fill2 が有効の場合 1	SNMP_LTYP_INTEGER	○	○
1141	Fill2 Detected Format	R/O	4	Fill2 で検出されたフォーマット ※フォーマットステータス表を参照	1080i/59.94 を検出 2	SNMP_LTYP_INTEGER	○	○
1142	Fill2 ST-2110 Status	R/O	4	Fill2 の ST-2110 の稼働状態を通知 (1 ビット単位のビットフラグ) 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中	VIDEO、AUDIO、ANC が全て稼働中 7	SNMP_LTYP_INTEGER	○	○
1143	Fill2 Synchronization status	R/O	4	Fill2 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中	同期中 1	SNMP_LTYP_INTEGER	○	○
1150	Key2 Used status	R/O	4	Key2 の有効・無効状態を通知します。 0 = 無効 1 = 有効	Key2 が有効の場合 1	SNMP_LTYP_INTEGER	○	○
1151	Key2 Detected Format	R/O	4	Key2 で検出されたフォーマット ※フォーマットステータス表を参照	1080i/59.94 を検出 2	SNMP_LTYP_INTEGER	○	○
1152	Key2 ST-2110 Status	R/O	4	Key2 の ST-2110 の稼働状態を通知 (1 ビット単位のビットフラグ) 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中	VIDEO、AUDIO、ANC が全て稼働中 7	SNMP_LTYP_INTEGER	○	○
1153	Key2 Synchronization status	R/O	4	Key2 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中	同期中 1	SNMP_LTYP_INTEGER	○	○
1160	Fill3 Used status	R/O	4	Fill3 の有効・無効状態を通知します。 0 = 無効 1 = 有効	Fill3 が有効の場合 1	SNMP_LTYP_INTEGER	○	○
1161	Fill3 Detected Format	R/O	4	Fill3 で検出されたフォーマット ※フォーマットステータス表を参照	1080i/59.94 を検出 2	SNMP_LTYP_INTEGER	○	○

1162	Fill3 ST-2110 Status	R/O	4	Fill3 の ST-2110 の稼働状態を通知 (1 ビット単位のビットフラグ) 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中	VIDEO、AUDIO、ANC が全て稼働中 7	SNMP_LTYP_INTEGER	○	○
1163	Fill3 Synchronization status	R/O	4	Fill3 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中	同期中 1	SNMP_LTYP_INTEGER	○	○
1170	Key3 Used status	R/O	4	Key3 の有効・無効状態を通知します。 0 = 無効 1 = 有効	Key3 が有効の場合 1	SNMP_LTYP_INTEGER	○	○
1171	Key3 Detected Format	R/O	4	Key3 で検出されたフォーマット ※フォーマットステータス表を参照	1080i/59.94 を検出 2	SNMP_LTYP_INTEGER	○	○
1172	Key3 ST-2110 Status	R/O	4	Key3 の ST-2110 の稼働状態を通知 (1 ビット単位のビットフラグ) 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中	VIDEO、AUDIO、ANC が全て稼働中 7	SNMP_LTYP_INTEGER	○	○
1173	Key3 Synchronization status	R/O	4	Key3 のデータ入力への同期ステータス 0 = 非同期 1 = 同期中	同期中 1	SNMP_LTYP_INTEGER	○	○
1180	Line1 out Used status	R/O	4	Line1 out の有効・無効状態を通知します。 0 = 無効 1 = 有効	Line1 out が有効の場合 1	SNMP_LTYP_INTEGER	○	○
1181	Line1 out Detected Format	R/O	4	Line1 out で検出されたフォーマット ※フォーマットステータス表を参照	1080i/59.94 を検出 2	SNMP_LTYP_INTEGER	○	○
1182	Line1 out ST-2110 Status	R/O	4	Line1 out の ST-2110 の稼働状態を通知 (1 ビット単位のビットフラグ) 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中	VIDEO、AUDIO、ANC が全て稼働中 7	SNMP_LTYP_INTEGER	○	○
1183	Line1 out Synchronization status	R/O	4	Line1 out のデータ入力への同期ステータス 0 = 非同期 1 = 同期中	同期中 1	SNMP_LTYP_INTEGER	○	○
1190	Line2 out Used status	R/O	4	Line2 out の有効・無効状態を通知します。 0 = 無効 1 = 有効	Line2 out が有効の場合 1	SNMP_LTYP_INTEGER	○	○
1191	Line2 out Detected Format	R/O	4	Line2 out で検出されたフォーマット ※フォーマットステータス表を参照	1080i/59.94 を検出 2	SNMP_LTYP_INTEGER	○	○
1192	Line2 out ST-2110 Status	R/O	4	Line2 out の ST-2110 の稼働状態を通知 (1 ビット単位のビットフラグ) 0 で VIDEO、AUDIO、ANC が全て停止中 0x1 = VIDEO が稼働中 0x2 = AUDIO が稼働中 0x4 = ANC が稼働中	VIDEO、AUDIO、ANC が全て稼働中 7	SNMP_LTYP_INTEGER	○	○
1193	Line2 out Synchronization status	R/O	4	Line2 out のデータ入力への同期ステータス 0 = 非同期 1 = 同期中	同期中 1	SNMP_LTYP_INTEGER	○	○

[フォーマットステータス表]

0=no signal or undefined

1= 1080i/60

2= 1080i/59.94

3= 1080i/50

4= 1080p/60-LevelA

5= 1080p/60-LevelB

6= 1080p/59.94-LevelA

7= 1080p/59.94-LevelB

8= 1080p/50-LevelA

9= 1080p/50-LevelB

10= 1080p/30

11= 1080p/29.97

12= 1080p/25

13= 1080p/24

14= 1080p/24sF

15= 1080p/23.98

16= 1080p/23.98sF

17= 2160p/59t1 (未対応)

18= 2160p/50t1 (未対応)

19= 2160p/60t1 (未対応)

20= 2160p/30 (未対応)

21= 2160p/29 (未対応)

22= 2160p/25 (未対応)

23= 2160p/24 (未対応)

24= 2160p/23 (未対応)

25= 720p/60 (未対応)

26= 720p/59 (未対応)

27= 720p/50(未対応)

7. 工場出荷設定（ディップスイッチの操作）

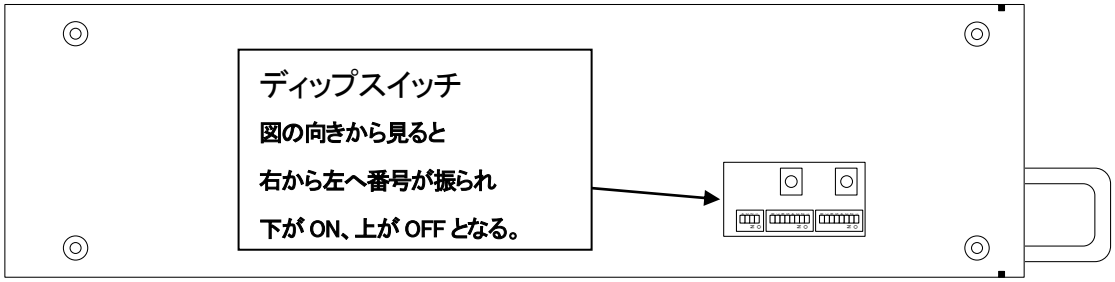
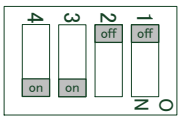


図7-1 メインモジュール

（1）BOOT MODE ディップスイッチ



上記の図は工場出荷時の設定です。

1=OFF固定

2=OFF固定

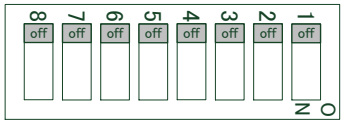
3=ON固定

4=ON固定

モジュール内部で使用するディップスイッチです。

工場出荷時設定から変更しないでください。

（2）PL DIPSW



上記の図は工場出荷時の設定です。

1=OFF固定

2=OFF：SFPのスピードを25Gに設定します。ON :SFPのスピードを10Gに設定します。

3= OFF：有効にします。ON：筐体からのALARM出力無効にします。

4=OFF固定

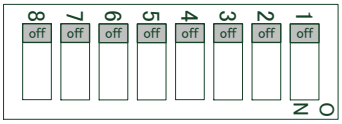
5=OFF固定

6=OFF固定

7=OFF固定

8=OFF固定

(3)PS DIPSW



上記の図は工場出荷時の設定です。

1=OFF固定

2=OFF固定

3=OFF固定

4=OFF固定

5=OFF固定

6=OFF固定

7=OFF固定

8= OFF：通常起動。ON：起動時に設定を工場出荷時設定にします。

注意！　ディップスイッチの8番は、設定終了後、電源を落として必ずOFFに戻してください。
ONにしたままですと、電源投入時、常に設定がクリアされます。

8. トラブルシューティング

トラブルが発生した場合の対処方法です。
（文中の→は対処方法を示しています）

現 象 電源が入らない。

原 因 ・筐体正面の電源スイッチはON側になっていますか？
・筐体の電源ケーブルのプラグはコンセントに挿入されていますか？
・筐体のヒューズは切れていませんか？
→もし交換してすぐにヒューズが切れるようであれば直ちに使用を中止し、
弊社へお問い合わせください。

現 象 まったく動作しない。

原 因 ・筐体の電源ケーブルは接続されていますか？
・筐体の電源スイッチはON側になっていますか？
・メインモジュールは正しく挿入されていますか？

現 象 PTPがLOCKしない。

原 因 ・本体のIEEE1588(PTP) SETTINGは適切ですか？(ドメイン等の設定)
・ご使用のスイッチはPTPに対応していますか？
・ご使用のスイッチはPTP設定は適切ですか？
・グランドマスターの設定は適切ですか？

現 象 DECODERのSDI出力の画像が乱れる。

原 因 ・SEMPTE2110DECODERのNetwork Settingsの設定IPアドレスが同ネットワーク上に2つ以上ありませんか？
・SEMPTE2110 DECODERのSDI formatの設定は適切ですか？
・SEMPTE2110 DECODERのChannel reconstruction delayの設定は適切ですか？

現 象 ENCODERのSDI出力の画像が乱れる。

原 因 ・SEMPTE2110 ENCODERのNetwork Settingsの設定IPアドレスが同ネットワーク上に2つ以上ありませんか？

現 象 音声が乱れる。

原 因 ・送信側、受信側のチャンネル数、パケットタイムは一致していますか？

9. 仕 様

1. 機能

【IPCK-70H】

動作モード	
	5 種類の動作モード
・DSK	LINE×2 系統入力、LINE×1系統出力、プレビュー×1系統出力のDSKモードです。
・COMBINER	SUPERを合成してFILL/KEYをを出力するコンバイナーモードです。　※PV 出力不可
・DSK 2LINE	LINE2 系統出力のDSKコードです。　※PV 出力不可
・CLEAN SWITCH	LINE×1系統入力、LINE×1系統出力、PV×1系統出力のDSKモードです。クリーンスイッチに対応しま
・CLEAN SWITCH 2OUT	す。
	LINE×1系統入力、LINE×2系統出力のDSKモードです。クリーンスイッチに対応します。※PV 出力不
・IP	可
	ST2110に準拠します。
	エンベデッド音声は48kHz/24bit 16chに対応
マーカー表示	プレビュー画面に、任意のサイズのセーフティーエリアマーカーを表示できます
スーパー	
・キー入力	ハイ・クリップ、ロー・クリップ、キーレベル調節ができます。
	リニアキー／セルフキー対応。
	Key信号でシェイプされたFill信号にも対応
・スーパーカラー	Fill 信号入力／インターナル・カラー（バリアブル・カラー）に対応
・トランジション	カット、フェード（2～300 フレーム）
・スーパーゲイン	スーパー1、2、3 に対して個別にトランジションIN／OUT の設定をカスタマイズできます。
	スーパー1、2、3に対して個別にゲイン調整できます。
スーパーTAKE 制御	パネルによる TAKE 制御が可能。LINE2 系統モードで使用する場合、スーパーを TAKE する LINE
	の系統をカスタマイズできます。
	例えば、GPI の接点信号では LINE1 系統のみにスーパー1 を TAKE し、Webserverによる TAKE で
	は、LINE1-2 の系統にスーパー1を TAKE することができます。
ALARM出力	エラー発生（故障でモジュールの電源が切れる。又はモジュールが筐体より抜かれている状態の事）
	時、筐体の接点ALARM出力端子によりアラーム信号を出力。
	機能は基板上のスイッチで有効／無効の設定ができます。
遅延量	モジュール通過時間は1FRAMEです。PTPに同期して出力します。
NMOS	IS-04、IS-05準拠
	AMWA NMOS準拠のAPIによる機器の発見と登録、機器の接続制御に対応
BMCA	IEEE 1588-2008準拠のBest Master Clock Algorithmに対応
	最も信頼性の高いマスタークロックを選出します
IGMP V3	IGMP V3準拠　通信帯域を削減する。
PTP	IEEE 1588-2008、SMPTE ST2059準拠したPTPに対応
タグVLAN	IEEE 802.1Q準拠。NMOS、PTP、各IPストリームに付加可能
ヒットレス	SMPTE ST 2022-7に準拠したヒットレスに対応
ステータス表示／エラー監視	IPのステータス表示、エラー監視機能を搭載しており、Vbus筐体標準のSNMP、Webserverで通知します
	・PTPステータス（ロック、ジッター、時刻情報表示）
	・ETHステータス（FCSエラー、リンク、ヒットレススイッチング、同期エラー、ST-2110 IP Stream error）
	・音声パケットの同期、パケット数
	・ANCパケットの同期、パケット数
	・映像パケットの同期、パケット数
	※状況により変更する可能性あり
WebServer監視、設定	監視、設定が可能。
IPネットワーク操作	NMOS

【GPIO-01】

GPI 制御(オプション)	オプションの GPIO-01 を使用すると、接点制御による切替えが可能です。フリーアサインが可能です。

2. 定 格

【IPCK-70H】

・IP I/F	
10/25 GE 1	モジュールタイプ：SFP28 コネクタータイプ： LC デュプレックス　　2 系統
10/25 GE 2	SMPTE ST2110-20/-21/-30/-40、ST2059-1、ST2022-7(Hitless)、 IEEE 1588-2008(PTP)準拠 25G モード時 プロトコル：25GBase-SR、光波長：850nm、伝送レート：25.78Gbps 10G モード時 プロトコル：10GBase-SR、光波長：850nm、伝送レート：10.3124Gbps
	HR10A-7R-6S(ヒロセ電機)　　1系統
GPI	GPIO-01対応
映像フォーマット	1080i60 1080i59.94 1080i50 1080p60 1080p59.94 1080p50 1080p30 1080sf30 1080p29.97 1080sf29.97 1080p25 1080sf25 1080p24 1080sf24 1080p23.98 1080sf23.98
動作温度	0～40℃
動作湿度	20～80%RH(ただし結露なき事)
消費電力	27.5VA (5V,5.5A)
質量	0.8kg

【GPIO-01(オプション)】

GPIO	HR10A-7P-6p (6pin) ヒロセ丸形 からDsub37ピン変換ケーブル ・接点 8入力、8出力
・接点入力	12mA 最大定格
・接点出力	60V/300mA 最大定格

【PRC-01(オプション)】

制御端子	XLR-3(f) 1系統 接点入力×1、接点出力×1　(pin1:GND、pin2:接点出力、pin3:接点入力)
対応電池	単3型ニッケル水素充電池(HR6)2本、または単3型アルカリ乾電池(LR6)2本 ※電池は付属しておりません
消費電力	0.02VA 以下
外形寸法	55(W)×110(H)×36(D)mm (突起物を除く)
質量	0.16kg (電池含まず)
動作温度/動作湿度	0～40℃ / 20～80%RH(ただし結露なき事)

【IPCK-70-03(オプション)】

GPIO-01 接続部	Dsub-37pin(m) 1系統 接点入力×3、接点出力×3
PRC-01 接続部	XLR-3(m) 3系統 ※ケーブルに1-3の印字があり、制御対象のSuper1-3を意味します。IPCK-70HのREMOTE→/TAKE/TALLYの設定を適切に行ってください。
ケーブル長	1000mm (コネクター部を除く)
質量	約0.21kg
動作温度 /動作湿度	0～40℃ / 20～80%RH(ただし結露なき事)

【CK-70W-07(オプション)】

外形寸法	31(W)×25(H)×9(D)mm (突起物を除く)
質量	10g
動作温度 /動作湿度	0～40℃ / 20～80%RH(ただし結露なき事)

3. 性 能

【IPCK-70H】

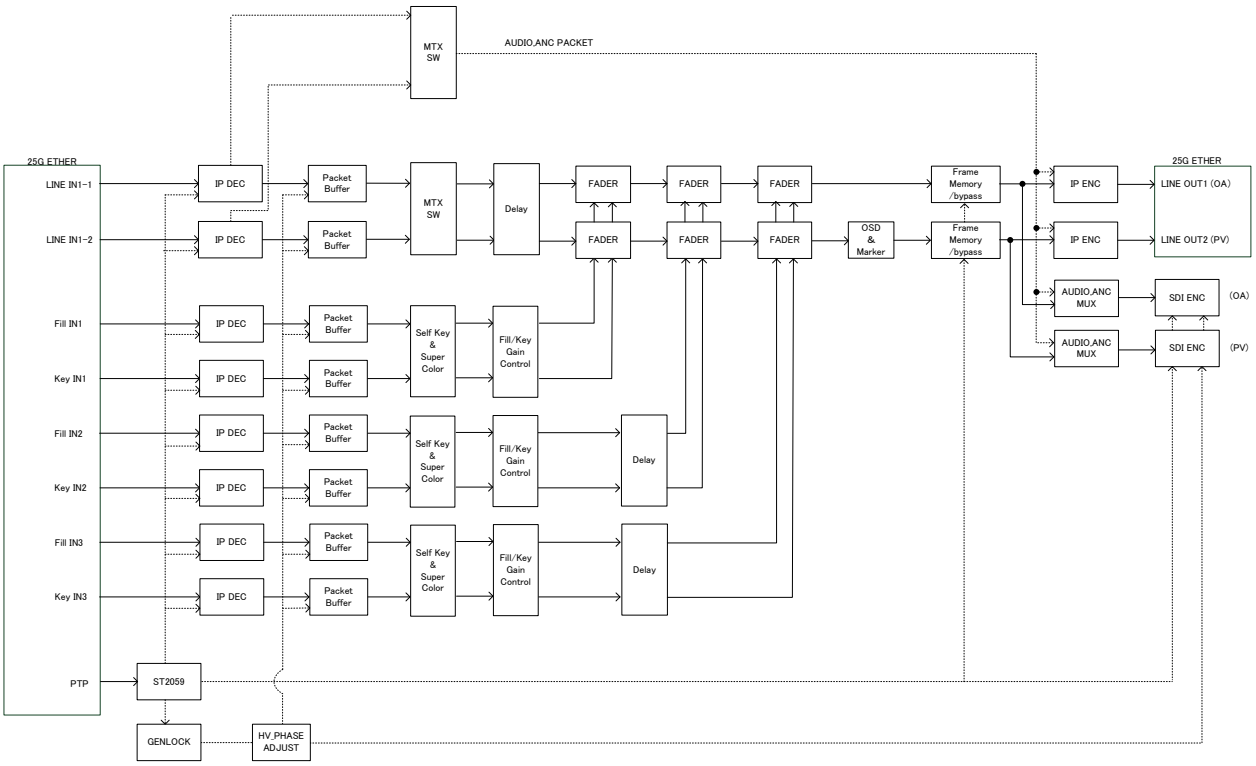
SDI出力特性	
分解能	10bit
サンプリング周波数	HD：74.25MHz・74.17MHz
信号振幅	0.8Vp-p±10%/75Ω
反射減衰量	5MHz～1.485GHz,15dB 以上、1.485GHz～3GHz,10dB 以上、
エンベデッド音声	3GHz～6GHz,7dB 以上、6GHz～12GHz,4dB 以上 リニア PCM 48kHz / 24bit 16ch
IP I/F特性	
出力波長	840 nm ～ 850 nm ～ 860 nm
入力波長	840 nm ～ 860 nm
光出力強度	−6.4 dBm ～ 3 dBm
Stressed Sensitivity（OMA）	−5.2 dBm

【PRC-01（オプション）】

制御端子	
・接 点 入 力（TALLY）	10mA 最大定格 ※ 5/3.3V TTL制御する場合、10mA以上の吸い込み能力があるデバイスを使用してください。
・接点出力（TAKE）	12V/100mA 最大定格
スイッチ寿命	約100万回
動作時間	ニッケル水素充電池（HR6）、または単3型アルカリ乾電池（LR6）を使用した場合、1日6時間使用、未使用時電源OFFの条件で、4～6ヵ月使用可能。 ※使用しない時は必ず電源をOFFにしてください。電源をONにしたまま長期間放置すると、電池が過放電状態になり液漏れや故障の原因となる場合があります。

※注外観及び仕様は変更することがあります。

10. ブロック図


MTX SW
AUDIO,ANC PACKET
25G ETHER
LINE IN1-1
LINE IN1-2
Fill IN1
Key IN1
Fill IN2
Key IN2
Fill IN3
Key IN3
PTP
IP DEC
Packet Buffer
MTX SW
Delay
FADER
Self Key & Super Color
Fill/Key Gain Control
OSD & Marker
Frame Memory /bypass
IP ENC
25G ETHER
LINE OUT1 (OA)
LINE OUT2 (PV)
AUDIO,ANC MUX
SDI ENC
(OA)
(PV)
ST2059
GENLOCK
HV_PHASE ADJUST

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arm-trusted-firmware-1.5-xilinx-v2018.3+gitAUTOINC+08560c36ea-r0

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bjam-native-1.64.0-r0

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cmake-native-3.8.2-r0

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compositeproto-0.4.2-r1

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curl-7.58.0-r0

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damageproto-1.2.1-r1

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===

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loginrec.h
atomicio.h
atomicio.c
and strlcat() (included in util.c) are from OpenSSH 3.6.1p2, and are licensed
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 *
 * curve25519-donna: Curve25519 elliptic curve, public key function
 *
 * http://code.google.com/p/curve25519-donna/
 *
 * Adam Langley <agl@imperialviolet.org>
 *
 * Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
 *
 * More information about curve25519 can be found here
 *     http://cr.yp.to/ecdh.html
 *
 * djb's sample implementation of curve25519 is written in a special assembly
 * language called qhasm and uses the floating point registers.
 *
 * This is, almost, a clean room reimplementation from the curve25519 paper. It
 * uses many of the tricks described therein. Only the crecip function is taken
 * from the sample implementation.
 */
```

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libx11-native-1.6.5-r0

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libxfixes-5.0.3-r0

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Jeff Gilchrist, Ottawa, Canada.
pbzip2@compression.ca
pbzip2 version 1.1.13 of Dec 18, 2015

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peekpoke-1.0-r0

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shadow-native-4.2.1-r0

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shadow-securetty-4.2.1-r3

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unzip-native-6.0-r5

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