

# DUX-210 HDR / SDR Converter

- 12G-SDI support
- Shortly delay conversion (Fast mode)
- “4K to 4K” and “HD to HD” HDR / SDR conversion
- HDR Gain / Offset / Knee / Lift adjustable
- BT.2100 HLG, S-Log3 support
- SQD / 2SI conversion, BT.2020 / 709 conversion
- 4 separate in-out HDR / SDR conversion with “HD to HD”



<FRX-23F chassis front image>

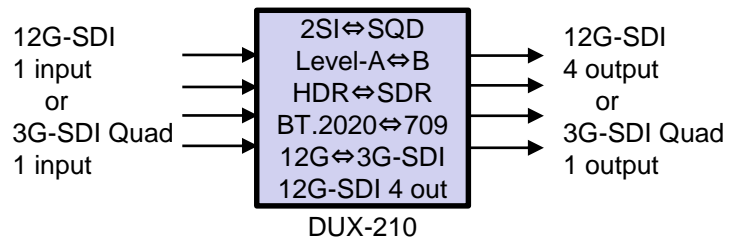


<DUX-210 rear image>

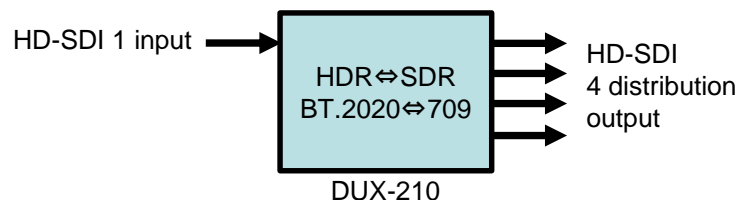
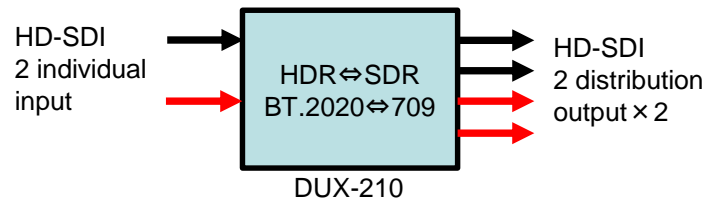
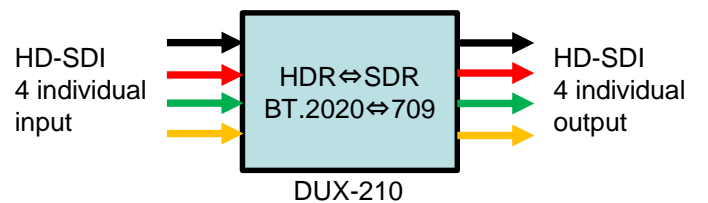
## ■ FEATURES

- 12G / 3G / HD-SDI support
- 59.94 / 50 / 29.97 / 25 / 23.98Hz video frame
- “4K to 4K” HDR / SDR conversion
- “HD to HD” HDR / SDR conversion
- BT.2100 HLG1.0 / 1.2 / 1.4, S-Log3 support
- HDR Gain / Offset / Knee / Lift adjustable
- “4K to 4K” data structure conversion
- 4 separate in-out with “HD to HD”
- BT.2020 / 709 conversion
- 16 channels Embedded audio
- ATC-LTC / ATC-VITC support
- External 525BB / 625BB / Tri-SYNC
- Output phase setting for external reference
- Fast / Frame / AVDL reference mode
- Video / Audio test signal output mode
- Web remote control
- Alarm output, SNMP support

## ■ “4K to 4K” Data structure conversion mode



## ■ “HD to HD” HDR/SDR conversion mode



## HDR conversion format

| IN \ OUT            | SDR 2.0<br>Rec.1886 | SDR 2.2<br>Rec.1886 | SDR 2.4<br>Rec.1886 | SDR 2.2<br>Rec.709 | HDR<br>HLG 1.0 | HDR<br>HLG 1.2 | HDR<br>HLG 1.4 | HDR<br>S-LOG3 |
|---------------------|---------------------|---------------------|---------------------|--------------------|----------------|----------------|----------------|---------------|
| SDR 2.0<br>Rec.1886 | ○                   | ○                   | ○                   | ○                  | ○              | ○              | ○              | ○             |
| SDR 2.2<br>Rec.1886 | ○                   | ○                   | ○                   | ○                  | ○              | ○              | ○              | ○             |
| SDR 2.4<br>Rec.1886 | ○                   | ○                   | ○                   | ○                  | ○              | ○              | ○              | ○             |
| SDR 2.2<br>Rec.709  | ○                   | ○                   | ○                   | ○                  | ○              | ○              | ○              | ○             |
| HDR<br>HLG 1.0      | ○                   | ○                   | ○                   | ○                  | ○              | ○              | ○              | ○             |
| HDR<br>HLG 1.2      | ○                   | ○                   | ○                   | ○                  | ○              | ○              | ○              | ○             |
| HDR<br>HLG 1.4      | ○                   | ○                   | ○                   | ○                  | ○              | ○              | ○              | ○             |
| HDR<br>S-LOG3       | ○                   | ○                   | ○                   | ○                  | ○              | ○              | ○              | ○             |

## Main Specifications

|                        |   |
|------------------------|---|
| <b>Video input</b>     |   |
| SDI input              | 4K: 12G-SDI / 3G-SDI quad / HD-SDI quad 1 input BNC 75Ω<br>HD: HD-SDI 4 input BNC 75Ω   |
| <b>Reference input</b> |   |
| Reference input        | 525BB / 525BB(10field ID) / 625BB / Tri-SYNC 1 input loop-through BNC 75Ω   |
| <b>Video output</b>    |   |
| SDI output             | 4K: 12G-SDI 4 distribution output BNC 75Ω<br>3G-SDI quad/HD-SDI quad 1 output BNC 75Ω<br>HD: HD-SDI 4 distribution output BNC 75Ω<br>HD-SDI 4 separate output BNC 75Ω |
| <b>Video format</b>    |   |
| 4K                     | 3840 / 4096×2160<br>59.94p / 50p (with 12G-SDI / 3G-SDI quad, SQD / 2SI, Level-A / Level-B)<br>29.97p(PsF) / 25p(PsF) / 23.98p(PsF) (with HD-SDI quad)                |
| HD                     | 1920×1080<br>59.94i / 50i / 29.97PsF / 25PsF / 23.98PsF (with HD-SDI)   |
| Sampling               | 4:2:2 10bit   |
| <b>Audio</b>           |   |
| Embedded audio         | 16 channels (32 channels with Level-B) 48kHz 24bit  |
| <b>FRX-23F</b>         |   |
| Constitution           | FRX-23F 2U full model, Redundant power supply<br>UXC001 Control module<br>10 Module mounting slot (UXC001 not included)   |
| Chassis size           | 430mm(W)×88mm(H)×450mm(D)   |
| Power requirements     | AC100V to 240V±10%, 50Hz/60Hz   |
| Current consumption    | 350VA (max)   |
| Operating temperature  | 5°C to 40°C   |

### ■ DUX 4 models Main chassis

- FRX-23F 2U full model 10 Module mounting
- FRX-12F 1U full model 3 Module mounting
- FRX-12H 1U half model 1 Module mounting
- FRX-12D 1U half model 1 Module mounting DC12V power input