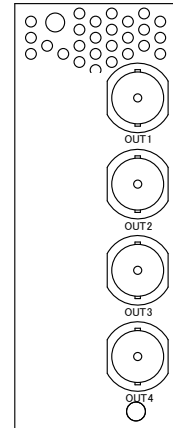


# DUX-214 4K / HD Logo, Test signal generator

- 12G-SDI support
- 4K / HD support
- 12G / 3G / HD-SDI 4 distribution output
- 3 Video Layer composite output
- User still video file import and Output as test signal
- Audio channel ID signal generation



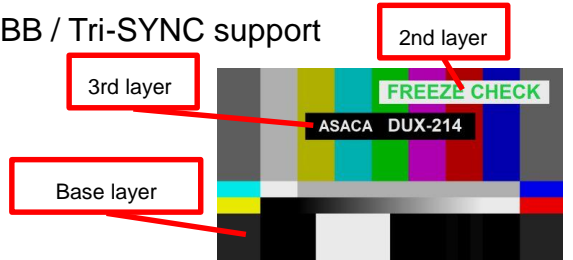
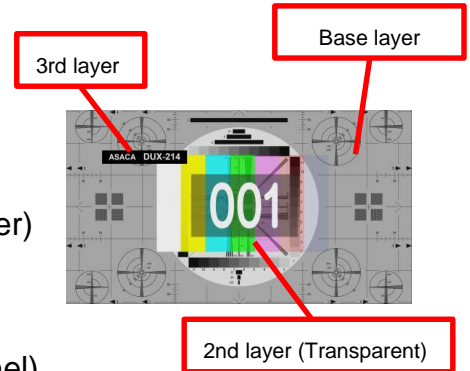
<FRX-23F chassis front image>




<DUX-214 rear image>

## FEATURES

- 12G / 3G / HD-SDI support
- 4K 3840×2160 / 4096×2160 image size support
- 59.94 / 50 / 29.97 / 25 / 23.98Hz video frame rate support
- 3 Video Layer composite output (Base layer, 2nd layer, 3rd layer)
- User still video file inport and Output as test signal
- 16 channels Embedded audio (32 channels with Level-B)
- Audio channel ID voice signal generate function (1 to 16 channel)
- Variable audio frequency and Variable audio level adjustable (with each channel)
- ATC-LTC / ATC-VITC timecode support
- External reference 525BB / 525BB(10 field ID) / 625BB / Tri-SYNC support
- BT.2020 / BT.709 Color bar
- Web remote control



## Test signal

<b>Video test signal (Base layer)</b>	ARIB STD-B72 Color bar(4K), ARIB STD-B66 Color bar(4K), ARIB STD-B28 Color bar(HD), SMPTE Color bar(SD), 75% Full field Color bar (75/0/75/0), 100% Full field Color bar (100/0/100/0), Check field 1, Check field 2, Check field 3, Monoscope, User still video 
<b>2nd Layer video</b>	User still video (display position, scroll setting adjustable)
<b>3rd Layer video</b>	User still video (display position, scroll setting adjustable)
<b>Audio test signal</b>	400Hz / 1kHz / Sweep / Mute / Variable (with each channel setting) Audio channel ID voice signal (1 to 16 channel)



## Main Specifications

Input	
Reference input	525BB / 525BB(10field ID) / 625BB / Tri-SYNC 1 input loop-through BNC 75Ω
Reference	525BB: 286mVp-p±6dB 625BB: 300mVp-p±6dB Tri-SYNC: ±300mVp-p±6dB
Timecode	LTC (option) 1 input BNC 0.5 to 4.5Vp-p 4.7kΩ SMPTE ST 12 RS-485 (option) 1 input D-sub 9pin(f)
Output	
SDI output	12G / 3G / HD-SDI 4 distribution output BNC 75Ω 3G-SDI quad / HD-SDI quad 1 output BNC 75Ω
SDI compliance	SMPTE ST292、ST424、ST2082 SMPTE ST274、ST425
SDI serial rate	11.88Gbps、11.88 / 1.001Gbps、2.97Gbps、2.97 / 1.001Gbps、1.485Gbps、 1.485 / 1.001Gbps
Video	
Sampling	4:2:2 10bit
4K	3840 / 4096×2160 59.94p / 50p (with 12G-SDI / 3G-SDI quad, SQD / 2SI, Level-A / Level-B) 29.97PsF / 25PsF / 23.98PsF (with HD-SDI quad)
HD	1920×1080 59.94p / 50p (with 3G-SDI) 59.94i / 50i / 29.97PsF / 25PsF / 23.98PsF (with HD-SDI)
Embedded audio	
Bit depth	24bit
Sampling	48kHz
Channel	16 channels (32 channels with Level-B)
Test signal	400Hz / 1kHz / Sweep / Mute / Variable
Level	-18dBFS / -20dBFS
Variable frequency	100Hz~15000Hz 10Hz step (with each channel setting)
Variable Level	-60dBFS~0dBFS 0.5dBFS step (with each channel setting)
Audio channel ID	1 to 16 channel (with sequence 1-2ch, 1-4ch, 1-8ch, 1-16ch)
FRX-23F	
Constitution	FRX-23F 2U full model, Redundant power supply 10 Module mounting slot
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

<Note>

External timecode input (LTC or RS-485) requires an optional UXC202 extended control module.

The UXC202 module can be mounted only in 2U chassis (FRX-23F). It can not be mounted on 1U full chassis (FRX-12F) or 1U half chassis (FRX-12H/D).



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