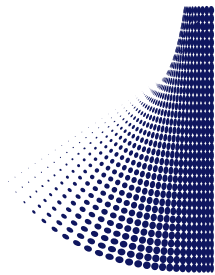


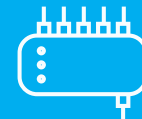
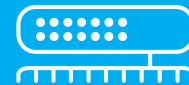
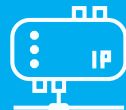
Apantac

Multiviewer Catalog

Classic Series - Compact Broadcast - AV Series - T Sharp (#) Modular Series
4x1 HD Series - HDMI Compact Series - Mi-16, MX-32 Compact Series
Mi-8, Mi-9 Compact Series - UE Series of UHD/4K Multiviewers



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CLASSIC MULTIVIEWERS

LE Series

LE-16CV-II

Composite Video in / HDMI out 16 x 1
1 RU, 50 cm deep Optional redundant PS

LE-4HD-II

SD ~ 3G SDI, CV in / HDMI out 4 x 1
1/2 RU, 40 cm deep Optional redundant PS

LE-8HD-II ~ LE-16HD-II

SD ~ 3G SDI, CV in / HDMI out 8 x 1 ~ 16 x 1
1 RU, 50 cm deep Optional redundant PS

LE-20-II ~ LE-32HD-II

SD ~ 3G SDI, CV in / HDMI out 20 x 1 ~ 32 x 1
2 RU, 60 cm deep Standard redundant PS

LI Series (Active input loop)

LI-8HD-II

3G, HD, SD SDI in / HDMI out 8 X 1
1 RU, 50 cm deep Optional redundant PS

LI-16HD-II

3G, HD, SD SDI in / HDMI out 16 X 1
2 RU, 60 cm deep Standard redundant PS

LX Series (Built-in matrix)

LX-16HD-II

3G, HD, SD SDI in / HDMI out 16 x 1 - Any in to any out
1 RU, 50 cm deep Optional redundant PS

LX-32-HD-II

3G, HD, SD SDI in / HDMI out 32 x 1 - Any in to any out
3 RU - 60 cm deep Standard redundant PS

DE Series (Computer inputs)

DE-4-II, DE-8-II

HDMI, DVI, VGA, CV in / HDMI out 4 x 1, 8 x 1
1 RU, 50 cm deep Optional redundant PS

DE-12-II, DE-16-II

HDMI, DVI, VGA, CV in / HDMI out 12 x 1, 16 x 1
2 RU, 60 cm deep Standard redundant PS

DL Series (Hybrid DE, LE Inputs)

DL-4+4-II

(4 DE, 4 LE) in / HDMI out 8 x 1
1 RU, 50 cm deep Optional redundant PS

DL-4+8-II

(4 DE, 8 LE) in / HDMI out 12 x 1
2 RU - 60 cm deep Standard redundant PS

IP Series (IP/ASI inputs)

IP-4, IP-8

IP (UDP), ASI in / HDMI out 4 x 1, 8 x 1
1 RU, 50 cm deep Optional redundant PS

IP-12, IP-16

IP (UDP), ASI in / HDMI out 12 x 1, 16 x 1
2 RU, 60 cm deep Standard redundant PS

IL Series (Hybrid IP, LE Inputs)

IL-4+4

(4 IP, 4 LE) in / HDMI out 8 x 1
1 RU, 50 cm deep Optional redundant PS

IL-4+8, IL-4+12

(4 IP, 4 ~ 12 LE) in / HDMI out 12 x 1, 16 x 1
2 RU, 60 cm deep Standard redundant PS

IL-8+4, IL-12+4, IL-8+8

(8 ~ 12 IP, 4 ~ 8 LE) in / HDMI out 12 x 1, 16 x 1
2 RU, 60 cm deep Standard redundant PS

- All models support input and output resolutions up to 1920 x 1200 @ 50/60 Hz
- All models have an internal quad-based, cascade architecture with one output for each group of four inputs. E.g. a LE-8HD-II (8x1 with two outputs) can also be configured as two independant quads; a LX-16HD-II can be configured as four independant quads or two 8x1 with PIPs fed by any of the inputs.
- IP and Hybrid IP accept MPEG2/4, H.264 video and MP1L2, AAC and HE-AAC audio.
- All models have On Screen Display capabilities (Borders, UMDs, OMDs, standalone labels, meters, alarm tags, markers, digital and analog clocks, logos, etc.) and can be controlled via front panel buttons, GPI and the AXP protocol.
- They support the TSL protocol over IP. They can de-embed audio from SDI or HDMI inputs and optionally discrete AES or analog audio.

COMPACT BROADCAST MULTIVIEWERS

4 x 1

MicroQ-S 

SDI+CV in / HDMI+SDI out HD in / HD out
140 x 44 x 132 mm Magnetic base

MicroDE-4

HDMI in / HDMI+SDI out HD in / HD out
140 x 44 x 270 mm Magnetic base

MiniQ-II 

SDI+CV in / HDMI+SDI out HD in / HD out
1/3 RU - 42 cm deep Cascadable

MiniDE-II 

HDMI in / HDMI+SDI out HD in / HD out
1/3 RU - 42 cm deep Cascadable

MiniDL-1+3 

Hybrid in / HDMI+SDI out HD in / HD out
1/3 RU - 42 cm deep Cascadable

MiniDL-2+2 

Hybrid in / HDMI+SDI out HD in / HD out
1/3 RU - 42 cm deep Cascadable

MiniDL-3+1 

Hybrid in / HDMI+SDI out HD in / HD out
1/3 RU - 42 cm deep Cascadable

8 x 1

Mi-8 12G

HD ~ 12G SDI in, HDMI+SDI out UHD in / HD out
1 RU - 24 cm deep Optional redundant PS

Mi-8 12G-UHD

HD ~ 12G SDI in, HDMI+12G+3G out UHD in / UHD out
1 RU - 24 cm deep Optional redundant PS

(4 x 1) + (4 x 1)

Mi-8 12G+

HD ~ 12G SDI in, HDMI+SDI out UHD in / HD out
1 RU - 24 cm deep Optional redundant PS

8 x 2 (Any in to any out)

Mi-8 12G#

HD ~ 12G SDI in, HDMI+SDI out UHD in / HD out
1 RU - 24 cm deep Optional redundant PS

9 x 1

Mi-9 

SD ~ 3G SDI in / SDI out HD in / HD out
1/3 RU - 44 cm Very cost effective

Mi-9+ 

SD ~ 3G SDI in / HDMI + SDI out HD in / HD out
1/3 RU - 44 cm Very cost effective

9 x 2 (Any in to any out)

Mi-9# 

SD~3G SDI in/ HDMI + SDI out HD in / HD out
1/3 RU - 44 cm Very cost effective

16 x 1

Mi-16

SD ~ 3G SDI in / HDMI + SDI out HD in / HD out
1 RU - 24 cm deep Optional redundant PS

Mi-16A

SD ~ 3G SDI in / HDMI+SDI out HD in / HD out
1 RU - 24 cm deep Optional redundant PS

Mi-16-UHD

SD ~ 3G SDI in, HDMI+12G+3G out HD in / UHD out
1 RU - 24 cm deep Optional redundant PS

Mi-16 12G-UHD

HD ~ 12G SDI in, HDMI+12G+3G out UHD in / UHD out
2 RU - 44 cm deep Standard redundant PS

Di-16

HDMI in / HDMI+SDI out HD in / HD out
1 RU - 24 cm deep Optional redundant PS

Di-16-UHD

HDMI in / HDMI+12G+3G out HD in / UHD out
1 RU - 24 cm deep Optional redundant PS

(8 x 1) + (8 x 1)

Mi-16+

SD ~ 3G SDI in / HDMI + SDI out HD in / HD out
1 RU - 24 cm deep Optional redundant PS

Di-16+

HDMI in / HDMI+SDI out HD in / HD out
1 RU - 24 cm deep Optional redundant PS

16 x 2 (Any in to any out)

Mi-16# 

SD ~ 3G SDI in / HDMI+SDI out HD in / HD out
1 RU - 24 cm deep Optional redundant PS

Di-16#

HDMI in / HDMI+SDI out HD in / HD out
1 RU - 24 cm deep Optional redundant PS

32 x 4 (Any in to any out)


Mx-32

SD ~ 3G SDI in / HDMI+SDI out HD in / HD out
2 RU - 44 cm deep Standard redundant PS

32 x 2 (Any in to any out)

Mx-32x2-UHD

SDI in / HDMI+12G+3G out HD in / UHD out
2 RU - 44 cm deep Standard redundant PS

All multiviewers with the  symbol have an openGear card equivalent.

Models with HDMI inputs accept sources with or without HDCP protection.

Ability to de-embed audio from SDI or HDMI inputs, have audio monitoring capabilities, GPIs, TSL support for names and tallies, On Screen Display capabilities (Borders, UMDs, OMDs, standalone labels, meters, alarm tags, markers, digital and analog clocks, logos,...) and can be controlled via GPI and the AXP protocol.


AV MULTIVIEWERS

4 x 1 (Without OSD)

MiniDE-4

DVI-I in / DVI/HDMI out HD in / HD out

1/2 RU - 23 cm deep Optional redundant PS

MiniDE-4-K 

DVI-I in / DVI/HDMI out HD in / HD out

1 RU - 23 cm deep Optional redundant PS

MiniDE-4-UHD

HDMI, DP, VGA in / HDMI out 4K in / 4K out

1 RU - 23 cm deep Variable size windows

MiniDE-4-UHD-II

HDMI 2.0 in / HDMI 2.0 out 4K in / 4K out

1 RU - 23 cm deep Variable size windows

MiniDE-4-UHD-K 

HDMI 2.0 in / HDMI 2.0 out 4K in / 4K out

1 RU - 23 cm deep Fixed 2x2 PIP, full screen

4 x 1 (With OSD)

UE-4

HDMI in / HDMI, 12G, 3G out 4K in / UHD out

2 RU, 45 cm deep Standard redundant PS

UE-4-K 


HDMI in / HDMI, 12G, 3G out 4K in / UHD out

2 RU, 45 cm deep Standard redundant PS

UE-4-II

HDMI in / HDMI, 12G, 3G out 4K in / UHD out

1 RU, 24 cm, cascadable * Optional redundant PS

UE-4-K-II 

HDMI in / HDMI, 12G, 3G out 4K in / UHD out

1 RU, 24 cm, cascadable * Optional redundant PS

8 x 1 (With OSD)

UE-8

HDMI in / HDMI, 12G, 3G out 4K in, UHD out

2 RU, 45 cm deep Standard redundant PS

UE-8-K 


HDMI in / HDMI, 12G, 3G out 4K in, UHD out

2 RU, 45 cm deep Standard redundant PS

UE-8-II

HDMI in / HDMI, 12G, 3G out 4K in, UHD out

2 RU, 45 cm, cascadable * Standard redundant PS

UE-8-K-II 

HDMI in / HDMI, 12G, 3G out 4K in, UHD out

22 RU, 45 cm, cascadable * Standard redundant PS

UE-4-K-II / UE-8-K-II are second generation versions of the UE Series

All multiviewer with the  symbol, have built-in Keyboard & Mouse capability

OSD = On Screen Display: UMDs, Meters, Tallies, Borders, Clocks, Logos, etc.

* Cascadable: Contact Apantac for details and availability.

HDMI inputs with or without HDCP protection supported.

T SHARP



The T# is a modular multiviewer architecture that accepts a mix of various input & output cards and allows sending any input to any output.

Two chassis with redundant power supplies are available: 4 RU with 8 input slots and 4 output slots up to a maximum 64 x 16 configuration and a 2RU chassis with 4 input slots and 1 output slot up to a maximum 32 x 4 configuration. More boards can be added to populate empty slots.

Each input slot can be equipped with one VSM input card - that handles 8 signals, associated with various rear input modules (UIM-xxx) accepting 4 or 8 inputs with different signal formats plus GPI inputs.

Each output slot can be equipped with one OPM output card. The OPM cards handle 4 outputs at a time, associated with various rear output modules that provide one HDMI (1080p) & SDI (1080p/i) pair for each of the four outputs. Depending on the rear output model, SDI can also be available over Fiber, or encoded as ST 2022-6 / 2110. The UHD OPM cards handle a single UHD output, associated with the UHD rear output module.

The first output card has a daughter board that supports control signals: IP, RS-232, GPI, Reference & LTC inputs, AA and AES monitoring outputs.

On Screen Display (OSD): The T# has the following capabilities: Borders, UMDs, OMDs, standalone labels, meters, markers, various video and audio alarm tags, digital and analog clocks, logos. It supports the TSL protocol over IP for dynamic tallies and labels.

It is configured using the free JDirector Configuration SW and can store up to 30 Presets. It supports various control HW and SW control panels and the AXP control protocol.

REAR INPUT MODULES



UIM-SDI
8 x 3G, HD, SD SDI Composite inputs



UIM-SDI-12G
4 x 12G, 3G, HD SDI inputs



UIM-SFP
4 x SFP Slots - 8 x SDI over Fiber
ST2110 / ST2022-6



UIM-HDMI
4 x HDMI / DVI inputs



UIM-HDMI-8
8 x HDMI / DVI inputs



UIM-HDMI-4K
4 x HDMI 2.0 UHD inputs



UIM-DP-4K
4 x Display Port 1.2 UHD inputs



UIM-IP
8 x H.264 / MPEG 2 programs
over IP / ASI

REAR OUTPUT MODULES



UOM-H
4 x HDMI & 4 SDI Outputs



UOM-H-SFP
4 x HDMI and
4 x SDI / ST2110 / ST2022-6 over Fiber



UOM-UHD
1 x HDMI 2.0 UHD & QHD
4 x HDMI & SDI

4x1 HD Multiviewers

	MiniQ-II	MiniDE-II	MiniDL-1+3	MiniDL-2+2	MiniDL-3+1	MiniDE-4	MiniDE-4-K	MicroQ-S	MicroDE-4
Form Factor	1/3 RU - 42 cm deep					1/2 RU - 23 cm deep	1 RU - 23 cm deep	140 x 44 x 132 mm	140 x 44 x 270 mm
Redundant Power Supply	No					Option - External			No
Built-in KVM capability	No						Yes		No
Cascadable	Yes					No			
On Screen Display	Yes					No			Yes
Input Connectors	High Density BNC	HDMI Type D	1 x HDMI Type D, 3 x High Density BNC	2 x HDMI Type D, 2 x High Density BNC	3 x HDMI Type D, 1 x High Density BNC	DVI-I		BNC	HDMI Type D
Video Input Formats	3G ⁽¹⁾ , HD, SD SDI & Composite	HDMI / DVI	HDMI / DVI & 3G ⁽¹⁾ , HD, SD SDI, CV			HDMI / DVI, VGA & Composite		3G ⁽¹⁾ , HD, SD SDI & Composite	HDMI - CEA timing resolutions ⁽²⁾
Maximum Input Resolution	1080p @ 50/60Hz					1920x1200 @ 60Hz		1080p @ 50/60Hz	
Audio Inputs	Embedded ⁽³⁾					No			Embedded ⁽³⁾
Output	HDMI & SDI ⁽⁴⁾					HDMI over CATx ⁽⁵⁾		HDMI & SDI ⁽⁴⁾	
Maximum Output Resolution	1920x1200, 50/60Hz					1080p @ 60Hz		1920x1200, 50/60Hz	
Processing Time	1 frame								
Power consumption	15W	17W				15W	17W	12W	15W
Windows Sizes	Variable up to full screen							Fixed 2x2 & full screen	
Window Positions	Any position							Fixed	
Windows Aspect Ratio	Any Aspect Ratio							16:9 & 4:3	
Control	GPI, AXP ⁽⁶⁾					GPI, AXP ⁽⁶⁾ , Front Panel Buttons			

Notes

- (1) 3G SDI Level A only
- (2) 480P, 576p, 720P, 1080i and 1080P
- (3) Audio embedded in SDI or HDMI signals
- (4) Identical content
- (5) Built in HDMI extender over CAT6 - 10 meters max distance with passive RJ-45>HDMI adapter, 35 meters with active HDMI-1-R-II receiver
- (6) AXP (Apantac eXchange Protocol) over IP and serial - CP-16, SPP hardware control panels and free software control panels available

	MiniQ-II	MiniDE-II	MiniDL-1+3	MiniDL-2+2	MiniDL-3+1	MiniDE-4	MiniDE-4-K	MicroQ-S	MicroDE-4
Borders	Yes - Adjustable color and thickness from 0 to 20 pixels/line					No		Yes	
UMD (Under Monitor Display)	One per Window ⁽⁸⁾					No		One per Window	
OMD (Over Monitor Display)	One per Window ⁽⁹⁾					No			
Standalone Labels	Yes, 8 ⁽¹⁰⁾					No			
Audio Meters	16 maximum / window	4 maximum / window	4 or 16 maximum / window			No		8 maximum / window	4 maximum / window
GPI	8								
Tally	Yes - via GPI / TSL					No		Yes - via GPI / TSL	
Tally Display	5 tally attributes ⁽¹¹⁾					No		5 tally attributes ⁽¹¹⁾	
Analog Clock	One					No			
Digital Clock	One					No			
On Screen Logo	No								
Safe Area Markers	2 sets per Window					No		1 set per Window	
Audio monitoring output	AA, Embedded ⁽¹²⁾					No		AA, Embedded ⁽¹²⁾	Embedded ⁽¹²⁾
Visual Alarms	Video & Audio ⁽¹³⁾					No		Video & Audio ⁽¹⁴⁾	
ATC/VITC display	Standard	No	Standard			No			
CC - EIA-608 / EIA-708	Standard	No	Standard			No			
Presets	30					1		10	

- Notes**
- (7) Borders can be turned ON or OFF - 16 possible colors
 - (8) UMD: Up to 32 characters. Static or dynamic names. (TSL protocol V3.1 over IP support as standard)
 - (9) OMD: Up to 32 characters. Static names
 - (10) Standalone Labels: Free position. Up to 32 characters. Static or dynamic (TSL)
 - (11) Tally attributes: LEDs x 2, Border color, UMD text color, UMD background color – One or more attributes freely assignable to each tally
 - (12) One monitoring stereo audio pair embedded both in the HDMI and SDI outputs. AA = also available as analog
 - (13) No audio, audio high/low, no video, video format, video frozen, video black
 - (14) No audio, no video, video format

Di Compact Multiviewers Series

	Di-16	Di-16+	Di-16#	Di-16-UHD
Configuration	16 x 1	(8 x 1) + (8 x 1)	16 x 2	16 x 1
HD / UHD	HD In / HD Out			HD In / UHD Out
Form Factor	1 RU - 24 cm deep			
Redundant Power Supply	Optional - External			
Any input to any output	Not applicable	No	Yes	Not applicable
Video Input Formats	HDMI 1.4			
Input Resolutions	CEA timing resolutions: 480i, 576i, 720P, 1080i and 1080P			
Input Connectors	Type D HDMI - 16 Type D to Type A HDMI cables provided as standard			
Audio Inputs	Embedded - first pair			
Output Head 1	2 x HDMI & SDI ⁽¹⁾	HDMI & SDI ⁽¹⁾		HDMI, 12G & 3G SDI ⁽¹⁾
Output Head 2	No	HDMI & SDI ⁽¹⁾		No
Output Resolution	1080P @ 50/60Hz			2160P, 1080P@50/60Hz
Processing Time	1 frame			
Power consumption	70W			
Windows Sizes	Fixed sizes: 1/4, 1/9, 1/16, 1/25, 1/36 - 16:9 Aspect Ratio			Fixed & Free Sizes ⁽²⁾
Window Positions	Any position			
Control	GPI - AXP (Apantac eXchange Protocol) over IP & Serial			
Borders	Yes - Thickness from 0 to 20 pixels/lines. Color is adjustable			
UMD (Under Monitor Display)	One per Window. Up to 32 characters. Static or dynamic names. TSL protocol V3.1 / V5.0 over IP support as standard			
OMD (Over Monitor Display)	One per Window. Up to 32 characters. Static names			
Standalone Labels	20 per output. Free position. Up to 32 characters. Static or dynamic (TSL)			
Audio Meters	16 maximum per window			
GPI	32			16
Tally	Yes - via GPI / TSL			
Tally display	5 tally attributes: LEDs x 2, Border color, UMD text color, UMD background color ⁽⁴⁾			
Analog Clocks	Two per Head ⁽⁵⁾	Two for the two Heads ⁽⁵⁾		Two per Head ⁽⁵⁾
Digital Clock	Two per Head ⁽⁵⁾	Two for the two Heads ⁽⁵⁾		Two per Head ⁽⁵⁾
On Screen logo	Four per Head	Four for the two Heads		Four per Head
Safe area markers	2 independent sets of markers per window			
Audio monitoring output	AES, Embedded			AA, AES, Embedded
Visual Alarms	Video & Audio - No audio, audio high/low, no video, video format			
ATC/VITC display	Optional license			
CC - EIA-608 / EIA-708	Optional license			
Presets	30			

Notes

- (1) Identical Content
- (2) Fixed sizes: 1/4, 1/9, 1/16, 1/25, 1/36 - 16:9 Aspect Ratio. Two of the windows can be freely sized up to 3840x2840
- (3) Borders. Different thickness from 0 to 20 pixels/lines. Color is adjustable.
- (4) One or more attribute(s) freely assignable to each tally.
- (5) Can be synced to LTC or NTP. Each clock can be adjusted to its own time zone and daylight settings. Can also be configured as an up/down counter.

Mi / Mx Compact Multiviewers Series

	Mi-8 12G	Mi-8 12G+	Mi-8 12G#	Mi-8 12G-UHD	Mi-9	Mi-9+	Mi-9#
Configuration	8 x 1	(4 x 1) + (4 + 1)	8 x 2	8 x 1	9 x 1		9 x 2
HD / UHD	UHD In / HD Out			UHD In / UHD Out	HD In / HD Out		
Form Factor	1 RU - 24 cm deep				1/3 of 1 RU - 44 cm		
Redundant Power Supply	Option - External				No		
Any Input to any Output	Not applicable	No	Yes	Not applicable			Yes
Video Input Formats	12G/3G/HD-SDI				3G/HD/SD-SDI		
Input Resolutions	Up to 1080P 60Hz			Up to 2160P 60Hz	Up to 1080P 60Hz		
SDI Input Connectors	High Density BNC						
Input Loop	No						
Audio Inputs	Embedded						
Output Head 1	2 x HDMI & SDI ⁽¹⁾	HDMI & SDI ⁽¹⁾		HDMI, 12G & 3G SDI	SDI	HDMI & SDI ⁽¹⁾	HDMI
Output Head 2	No	HDMI & SDI ⁽¹⁾		No			SDI
Output Resolution	1080P			2160P & 1080P	1080P		
Processing Time	1 frame						
Power Consumption	75W				15W		
Windows Sizes	Fixed Sizes ⁽²⁾			Fixed & Free Sizes ⁽³⁾	Fixed Sizes ⁽²⁾		
Window Positions	Any position						
Control	GPI, AXP (Apantac eXchange Protocol) over IP and serial - CP-16, SPP hardware control panels and free software control panels available						
Borders	Yes - Thickness from 0 to 20 pixels/lines. Color is adjustable						

Notes

- (1) Identical Content
- (2) Fixed sizes: 1/4, 1/9, 1/16, 1/25, 1/36 - 16:9 Aspect Ratio
- (3) Fixed sizes: 1/4, 1/9, 1/16, 1/25, 1/36 - 16:9 Aspect Ratio. Two of the windows can be freely sized up to 3840x2840

	Mi-8 12G	Mi-8 12G+	Mi-8 12G#	Mi-8 12G-UHD	Mi-9	Mi-9+	Mi-9#
UMD (Under Monitor Display)	One per Window - Up to 32 characters. Static or dynamic names. (TSL protocol V3.1 / V5.0 over IP support as standard)						
OMD (Over Monitor Display)	One per Window - Up to 32 characters. Static names						
Standalone Labels	20 per Output - Free position. Up to 32 characters. Static or dynamic (TSL)						
Audio Meters	16 maximum per window						
GPI	32				9		
Tally	Yes - via GPI / TSL						
Tally Display	5 tally attributes - LEDs x 2, Border color, UMD text color, UMD background color – One or more attributes freely assignable to each tally						
Analog Clocks	Two per Head ⁽¹⁾	Two for 2 Heads ⁽¹⁾		Two per Head ⁽¹⁾		Two for 2 Heads ⁽¹⁾	
Digital Clocks	Two per Head ⁽¹⁾	Two for 2 Heads ⁽¹⁾		Two per Head ⁽¹⁾		Two for 2 Heads ⁽¹⁾	
On Screen Logo	Four per Head	Four for 2 Heads		Four per Head		Four for 2 Heads	
Safe Area Markers	2 independent sets of markers per window						
Audio monitoring output	AES, Embedded			AA, AES, Embedded	SDI (embedded)	HDMI & SDI (embedded)	
Visual Alarms	Video & Audio - No audio, audio high/low, no video, video format						
ATC/VITC Display	Optional license						
CC - EIA-608 / EIA-708	Optional license						
3rd Party Interface	Optional Utah Router license						
Presets	30						

Notes (4) Can be synced to LTC or NTP. Each clock can be adjusted to its own time zone and daylight settings. Can also be configured as an up/down counter.

Mi / Mx Compact Multiviewers Series

	Mi-16	Mi-16A	Mi-16+	Mi-16#	Mi-16-UHD	Mi-16 12G-UHD	Mx-32	Mx-32x2-UHD
Configuration	16 x 1		(8 x 1) + (8 x 1)		16 x 2		16 x 1	
HD / UHD	HD In / HD Out				HD In / UHD Out	UHD In / UHD Out	HD In / HD Out	HD In / UHD Out
Form Factor	1 RU - 24 cm deep					2 RU - 44 cm deep		
Redundant Power Supply	Option - External					Yes - Standard		
Any input to Any Output	Not applicable		No	Yes	Not applicable		Yes	
Video Input Formats	3G/HD/SD-SDI				3G/HD-SDI	12G/3G/HD-SDI	3G/HD/SD-SDI	3G/HD-SDI
Input Resolutions	Up to 1080P 60Hz					Up to 2160P 60Hz	Up to 1080P 60Hz	
SDI Input Connectors	BNC					High Density BNC	BNC	
Input Loop	Yes - Passive	Yes - Inputs 1 ~ 8		Yes - Passive		No		
Audio Inputs	Embedded	AA, AES, Embedded		Embedded				
Output Head 1	2 x HDMI & SDI ⁽¹⁾		HDMI & SDI ⁽¹⁾		HDMI, 12G & 3G SDI		HDMI & SDI ⁽¹⁾	HDMI, 12G, 3G SDI
Output Head 2	No		HDMI & SDI ⁽¹⁾		No	No	HDMI & SDI ⁽¹⁾	HDMI, 12G, 3G SDI
Output Head 3	No					HDMI & SDI ⁽¹⁾		No
Output Head 4	No					HDMI & SDI ⁽¹⁾		No
Output Resolution	1080P				2160P & 1080P		1080P	2160P & 1080P
Processing Time	1 frame							
Power Consumption	20W				55W	100W		
Windows Sizes	Fixed Sizes ⁽²⁾				Fixed & Free Sizes ⁽³⁾		Fixed Sizes ⁽²⁾	Fixed & Free Sizes ⁽³⁾
Window Positions	Any position							
Control	GPI, AXP (Apantac eXchange Protocol) over IP and serial - CP-16, SPP hardware control panels and free software control panels available							
Borders	Yes - Borders. Thickness from 0 to 20 pixels/lines. Color is adjustable							

Notes

- (1) Identical Content
- (2) Fixed sizes: 1/4, 1/9, 1/16, 1/25, 1/36 - 16:9 Aspect Ratio
- (3) Fixed sizes: 1/4, 1/9, 1/16, 1/25, 1/36 - 16:9 Aspect Ratio. Two of the windows can be freely sized up to 3840x2840

	Mi-16	Mi-16A	Mi-16+	Mi-16#	Mi-16-UHD	Mi-16 12G-UHD	Mx-32	Mx-32x2-UHD
UMD (Under Monitor Display)	One per Window - Up to 32 characters. Static or dynamic names. (TSL protocol V3.1 / V5.0 over IP support as standard)							
OMD (Over Monitor Display)	One per Window - Up to 32 characters. Static names							
Standalone Labels	20 per Output - Free position. Up to 32 characters. Static or dynamic (TSL)							
Audio Meters	16 maximum / window							
GPI	32						64	
Tally	Yes - via GPI / TSL							
Tally Display	5 tally attributes - LEDs x 2, Border color, UMD text color, UMD background color – One or more attributes freely assignable to each tally							
Analog Clocks	Two per Head ⁽⁴⁾	Two for 2 Heads ⁽⁴⁾			Two per Head ⁽⁴⁾		2 x 2 for 2 Heads ⁽⁴⁾	Two per Head ⁽⁴⁾
Digital Clocks	Two per Head ⁽⁴⁾	Two for 2 Heads ⁽⁴⁾			Two per Head ⁽⁴⁾		2 x 2 for 2 Heads ⁽⁴⁾	Two per Head ⁽⁴⁾
On Screen Logo	Four per Head	Two for 2 Heads	Four for 2 Heads	Four per Head			2 x 4 for 2 Heads	Four per Head
Safe Area Markers	2 independent sets of markers per window							
Audio Monitoring Output	AA, AES, Embedded						Embedded	AES, Embedded
Visual Alarms	Video & Audio - No audio, audio high/low, no video, video format							
ATC/VITC Display	Optional license							
CC - EIA-608 / EIA-708	Optional license							
3rd Party interface	Optional Utah Router license							
Presets	30							

Notes (4) Can be synced to LTC or NTP. Each clock can be adjusted to its own time zone and daylight settings. Can also be configured as an up/down counter.

UHD /4K HDMI Multiviewers

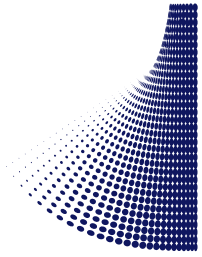
	UE-4	UE-4-K	UE-8	UE-8-K	UE-4-II	UE-4-K-II	UE-8-II	UE-8-K-II
Configuration	4 x 1		8 x 1		4 x 1		8 x 1	
Cascadable	No				Yes ⁽¹⁾	No ⁽¹⁾	Yes ⁽¹⁾	No ⁽¹⁾
Form Factor	2 RU - 45 cm deep				1 RU - 24 cm deep		2 RU - 45 cm deep	
Redundant Power Supply	Yes - Standard				Option - External		Yes - Standard	
Built-in KVM Capability	No	Yes	No	Yes	No	Yes	No	Yes
On Screen Display	Yes							
Input Formats / Connectors	HDMI 2.0. Input connectors: HDMI Type A							
Maximum Input Resolution	Any DVI / HDMI resolution up to 4K @ 60Hz							
Audio Support	Embedded audio (pairs 1 ~ 4)							
Output	HDMI 2.0, 12G, down converted 3G SDI							
Maximum Output Resolution	UHD @ 60Hz							
Processing Time	1 frame							
Power Consumption	70W		110W		55W		110W	
Window Sizes/Positions	Variable up to full screen. Windows can be any position							
Control	GPI, AXP (Apantac eXchange Protocol) over IP and serial - CP-16, SPP hardware control panels and free software control panels available							
Borders	Yes - Thickness from 0 to 20 pixels/lines. Color is adjustable							
UMD (Under Monitor Display)	One per Window - Up to 32 characters. Static or dynamic names. (TSL protocol V3.1 / V5.0 over IP support as standard)							
OMD (Over Monitor Display)	One per Window - Up to 32 characters. Static names							
Standalone Labels	20 per Output - Free position. Up to 32 characters. Static or dynamic (TSL)							
Audio Meters	8 maximum per window							
GPI	24				16			
Tally	Yes - via GPI / TSL							
Tally Display	5 tally attributes - LEDs x 2, Border color, UMD text color, UMD background color – One or more attributes freely assignable to each tally							
Analog Clocks	Two ⁽²⁾		Four ⁽²⁾		Two ⁽²⁾		Four ⁽²⁾	
Digital Clock	Two ⁽²⁾		Four ⁽²⁾		Two ⁽²⁾		Four ⁽²⁾	
On Screen Logo	Four		Eight		Four		Eight	
Safe Area Markers	2 sets per window							
Audio Monitoring Output	AA, AES, Embedded						AES, Embedded	
Visual Alarms	Video & Audio - No audio, audio high/low, no video, video format							
Presets	30							

Notes

(1) Cascade: Contact Apantac

(2) Can be synced to LTC or NTP. Each clock can be adjusted to its own time zone and daylight settings. Can also be configured as an up/down counter.

	MiniDE-4-UHD	MiniDE-4-UHD-II	MiniDE-4-UHD-K
Configuration	4 x 1		
Cascadable	No		
Form Factor	1 RU - 23 cm deep		
Redundant Power Supply	No		
Built-in KVM Capability	No		Yes
On Screen Display	No		
Input Formats	HDMI 2.0 / VGA / DP 1.2	HDMI 2.0	
Input Connectors	HDMI Type A / VGA / DP	HDMI Type A	
Maximum Input Resolution	Any DVI / HDMI resolution up to 4K @ 60Hz		
Audio Support	Embedded audio - first pair		
Output	HDMI 2.0		
Maximum Output Resolution	4K @ 60Hz including 3840x2160 and 1080p @ 50/60 Hz		
Processing Time	1 frame		
Power consumption	40W		
Windows Sizes	Variable up to full screen		Fixed 2x2 & full screen
Window Positions	Any position		Fixed
Control	Protocol over IP/Serial		
Audio Monitoring Output	AA, Embedded		
Visual Alarms	Video presence & configurable tag with FW version, IP address and more		
Presets	2 fixed, 8 custom		2 fixed



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