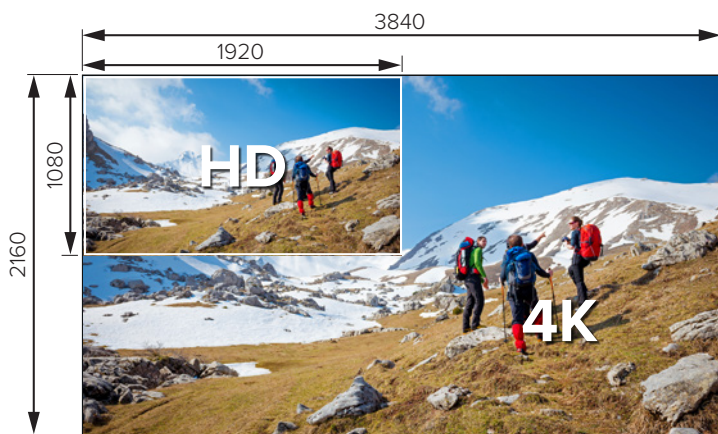# CORIO**master**

4K
Tech Specs

3840
1920
1080
2160

HD
4K

What is 4K

In Pro-AV "4K" refers to a video resolution of 3840 x 2160 Pixels which is normally used at 24 or 30 Frames per Second (FPS) although some sources are available at higher frame rates up to 60FPS. The 4K resolution is exactly 4 times larger than a 1080P signal and nine times larger than a 720P signal.

tvONE

CORIO**master** is a high bandwidth, 4K capable video wall processor which gives you the tools you need to create high impact video walls and projector blending and is available in 4RU & 1RU modular frames.

Flexible Bandwidth Management

Each of the four canvasses have a bandwidth of 600 Megapixels per second. How you utilize this bandwidth is up to you, according to the bandwidth of your source:

Input	Frame Rate	Window Type	Bandwidth (Megapixels)	Scalers
4K **	60	UHQ	518.4	4
	30	UHQ	259.2	4
	24	UHQ	207.4	4
	30	EHQ	81.9	2
1080p**	60	EHQ	129.6	2
	30	EHQ	64.8	2
	60	HQ	69.1	1
	30	HQ	34.6	1
	60	PV	1.8	0*
	30	PV	0.9	0*

* Limited to 14 windows per canvas

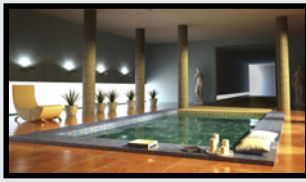** Lower resolutions will utilize less bandwidth

*** CORIO**master** mini has 12 scalers total

System total
20 scalers***

Creating 4K Videowalls

Up to four groups of displays (Canvasses) can be independently controlled and you can have up to 14 video windows per Canvas.

CANVASSES (Up to 4)

BOARD ROOM

SOURCES:
1 x 4K/30 (UHQ) & 2 x 4K/30 (EHQ)
OUTPUT: 2 x 2 1080p video wall

UHQ 259.2 | EHQ 81.9 | EHQ 81.9

BANDWIDTH

1 2 3 4 5 6 7 8
SCALERS

REMOTE ROOM

SOURCES:
1 x 1080p (EHQ)
OUTPUT: 2 x 2 1080p video wall

EHQ 129.6

BANDWIDTH

1 2
SCALERS

LOBBY

SOURCES:
1 x 4K/60 (UHQ)
OUTPUT: 1 x 4K screen

UHQ 518.4

BANDWIDTH

1 2 3 4
SCALERS

CONFERENCE CENTER

SOURCES:
1 x 4K/30 (UHQ) & 2 x 1080p (HQ)
OUTPUT: 3 x 3 720p video wall

UHQ 259.2 | HQ 69.1 | HQ 69.1

BANDWIDTH

1 2 3 4 5 6
SCALERS

CORIO**master** - 4K MODULES

4K INPUT MODULE   SKU: CM-HDMI-4K-2IN

Inputs:	2 x 4K30 or 1 x 4K60
Resolution Support:	480i, 576i, 720p, 1080i & 1080p @ 24Hz to 60Hz
	3840 x 2160 4:4:4 @ 23.98Hz 24Hz, 25Hz,
	29.97Hz & 30Hz, 8-bit
	3840x2160 & 4096x2160 4:2:0 50/59.94/60Hz
	8-bit
Compatibility:	HDMI 2.0 (for 3840 x 2160 4:2:0 @ 50Hz,
	59.94Hz & 60 Hz)
	HDMI 1.4 (for other resolutions)
	HDCP 1.4
Color Space:	BT.601 on standard resolutions
	BT.709 for 720p, 1080i, 1080p and 2160p

4K SCALED OUTPUT   SKU: CM-HDMI-4K-SC-1OUT

Outputs:	1 x 4K30
Resolution Support:	480i, 576i, 720p, 1080i & 1080p @ 24Hz to 60Hz
	3840 x 2160 4:4:4 @ 23.98Hz 24Hz, 25Hz,
	29.97Hz & 30Hz, 8-bit
Compatibility:	HDMI 1.4
	HDCP 1.4
Color Space:	BT.601 on standard resolutions
	BT.709 for 720p, 1080i, 1080p and 2160p

CORIO**master** C3-540 & CORIO**master** mini C3-510
Other I/O modules are available for DVI-U, DVI-I, HDBaseT, 3G-SDI and HD-SDI.