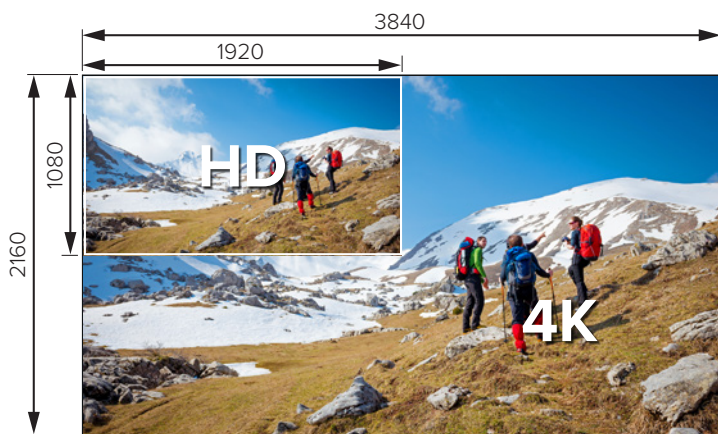


# CORIOmaster



## 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.

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
1080p**	30	EHQ	81.9	2
	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

\*\*\* CORIOmaster 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	EHQ	EHQ
259.2	81.9	81.9




SCALERS: 1 2 3 4 5 6 7 8

**REMOTE ROOM**



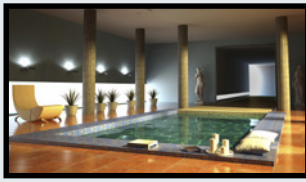
SOURCES:  
1 x 1080p (EHQ)  
OUTPUT: 2 x 2 1080p video wall

EHQ
129.6




SCALERS: 1 2

**LOBBY**



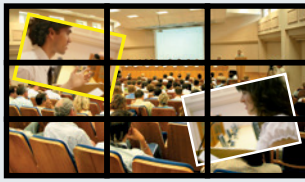
SOURCES:  
1 x 4K/60 (UHQ)  
OUTPUT: 1 x 4K screen

UHQ
518.4




SCALERS: 1 2 3 4

**CONFERENCE CENTER**



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


UHQ	HQ	HQ
259.2	69.1	69.1



SCALERS: 1 2 3 4 5 6


### 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.

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