

LV5490SER10 direct-SDI video noise meter option

For the LV5490 4K waveform monitor



The new LV5490SER10 video noise meter option allows measurement of UHD/HD/SD noise in luminance or RGB component chroma channels.

Features

● Supports various formats

Measurement is possible in all formats that can be input to the LV 5490.(IP/12G/3G/HD/SD)

※The corresponding SDI format conforms to LV 5490 specification.

● Noise measurement frequency band

An integral low-pass filter allows elements of the high frequency band to be removed at the time of noise measurement.

● Full digital processing

Data obtained from the input SDI signal is converted directly without intermediate analog processing, allowing highly accurate and highly stable measurement.

● Measurement window

On the picture display screen, you can set a window to measure noise. You can set the size of the window, region by 1 pixel or 1 line.

If the video level is not flat due to the influence of the lens etc., you can select the measurement window as flat as possible and measure it.

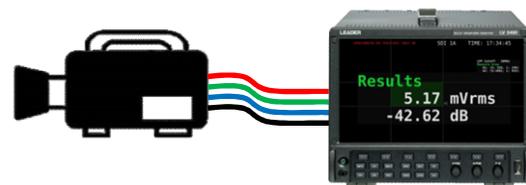
※Although the whole video area can be selected in the measurement window, depending on the processing method of the input video signal, the surrounding noise measurement value may not be accurate. It is recommended to measure within several% using the measurement window function.

● Alarm function

An automatic alarm can be activated when the noise level exceeds a user-set threshold.

● Direct measurement

You can measure the noise level value simply by connecting the camera to the LV 5490.



※To operate LV 5490 SER 10, one of LV 5490 SER 01, LV 5490 SER 02, LV 5490 SER 06, LV 5490 SER 08 for input is required for input

※The new LV5490SER10 video noise meter option is believed to be the world's first direct-digital 4K noise measurement processor.

Standard	
S/N measurement function	
Signals to be measured	Select one of Y / G / B / R
Measuring area	The size and position of the measurement range can be set arbitrarily
Noise level indication	MVrms Display or dB display
Alarm function	When the measured value exceeds the set threshold value, the measured value is displayed in red
Low pass filter performance (SD video signal)	
525i/625i	
Cutoff band	5.5MHz/ 4.4MHz/ 3.6MHz/ 2.7MHz/ 1.4MHz/ 0.7MHz: -12dB ± 1dB
Passband ripple	±0.5dB
Low pass filter performance (HD video signal)	
1080i/p/PsF, When the frame rate is 30 Hz or less, or 720 p	
Cutoff band	30MHz/ 24MHz/ 20MHz/ 15MHz/ 7.5MHz/ 3.7MHz: -12dB ± 1dB
Passband ripple	±0.5dB
1080p, frame rate 48 Hz or more	
Cutoff band	60MHz/ 48MHz/ 40MHz/ 30MHz/ 15MHz/ 7.5MHz: -12dB ± 1dB
Passband ripple	±0.5dB
Low pass filter performance (4K video signal)	
2160p/psf, frame rate 30 Hz or less	
Cutoff band	120MHz/ 96MHz/ 80MHz/ 60MHz/ 30MHz/ 15MHz: -12dB ± 1dB
Passband ripple	±0.5dB
2160p, frame rate 48 Hz or more	
Cutoff band	240MHz/ 192MHz/ 160MHz/ 120MHz/ 60MHz/ 30MHz: -12dB ± 1dB
Passband ripple	±0.5dB
High pass filter performance (SD video signal)	
525i/625i	
Cutoff band	36kHz: -12dB ± 1dB
Passband ripple	±0.5dB
High pass filter performance (HD video signal)	
1080i/p/PsF, When the frame rate is 30 Hz or less, or 720 p	
Cutoff band	200kHz: -12dB ± 1dB
Passband ripple	±0.5dB
1080p frame rate 48 Hz or more	
Cutoff band	400kHz: -12dB ± 1dB
Passband ripple	±0.5dB
High pass filter performance (4K video signal)	
2160p/PsF, frame rate 30 Hz or less	
Cutoff band	800kHz: -12dB ± 1dB
Passband ripple	±0.5dB
2160p, frame rate 48 Hz or more	
Cutoff band	1.6MHz: -12dB ± 1dB
Passband ripple	±0.5dB
Measurement accuracy (at filter through time)	
0~-65dB	±0.3dB
~-70dB	±0.7dB
~-75dB	±2.0dB

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※ Product specifications are subject to change without notice.

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