

## DS Series Recording Specification

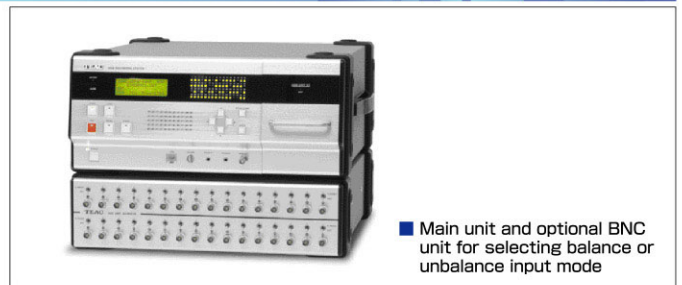
# DS Series

Input	Balanced (Balance/Unbalance selectable in the optional BNC unit)	Max Recording Rate	16M words/sec (32MB/sec) when a newly formatted internal HDD is used
Input Mode	AC/DC/IEPE (Excitation 24V DC/4mA)	Max Playback Rate	8M words/sec (16MB/sec) (when playback unit is used)
Input Range	±0.1V, 0.2V, 0.5V, 1V, 2V, 5V, 10V, 20V Approx. ±130% of Full Range	Recording Time	Example : 16 channel at 1MHz sampling Approx. 70 minutes 32 channel at 256kHz sampling Approx. 2.5 hours
Anti-aliasing Filter	At 1MHz Sampling-Analog Filter 400kHz (-3dB) 6th Order Butterworth Switched Capacitor Filter below 512kHz sampling: The cut-off frequency is automatically set to 40% of the sampling frequency. Fixed to OFF when External Sampling is selected (However, the above-mentioned analog filter is active)	Dynamic Range	100kHz Sampling±1V Range 80dB (Typical at recording)
No. of Channels	Selectable from 2/4/8/16/32 (/64 for DS-640R only), however in 1MHz sampling the max channels is 16. In 500kHz and lower sampling, the max channels is 32. Note that the max data rate in analog playback is 8M words / sec (500kHz×16 channels).	Sampling Start	Internal, External (TTL)
Frequency Response (±3dB)	In AC mode, 0.1Hz~400kHz. In DC mode, DC~400kHz	Sampling Clock	Internal, External (TTL)
Quantization	16 bits, (15 bits fixed only on channel 1, the LSB 1 bit is used as an identification bit such as the trigger information)	Storage	Internal proprietary removable HDD×2 (RAID0) Approx. 140GB
Sampling Frequency	1MHz/500kHz/250kHz/125kHz/62.5kHz/31.25kHz 400kHz/200kHz/100kHz/50kHz/25kHz 40kHz/20kHz 256kHz/128kHz/64kHz/32kHz 512kHz/409.6kHz/204.8kHz/102.4kHz/51.2kHz/25.6kHz 40.96kHz/20.48kHz 384kHz/192kHz/96kHz/48kHz/24kHz ※Selectable at 500k word or more ※In playback, the max sampling frequency is 500kHz	Recorder Key Operation	STOP/REC/START/PAUSE/EVENT
		Input Level Display	Indicates input state of each channel with LED Dark : less than ±5% Green : from ±5% to approx.±50% Orange : from ±51% to approx.±125% Red : Over level Above approx.±125%
		Level Trigger	Digital comparator method. Edge direction is selectable.
		Pre-trigger	Function Included
		Interface	Ethernet 1000BASE-T
		External Dimension	Approx. 380 (W)×162(H)×451(D) mm (excluding umbo)
		Weight	Approx. 23kg (DS-320R)
		Power	100-230VAC (A backup battery for momentary power failure included)

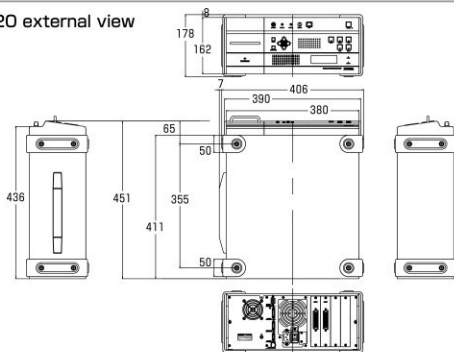
## DS Series Line up

DS-320R	32 channel record system
DS-640R	64 channel record system
DS-320RP	DS-320RP 32 channel record and playback system
DS-640P	64 channel playback system
AU-BNC32	32 channel BNC unit
PL-S1001	LX View wave form display and data extraction software program
Windows PC removable HDD connecting unit (in planning)	

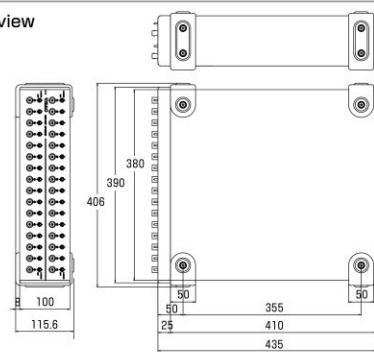
※ Contact us for other channel configuration inquiries.



### ■ DS-640/320 external view



### ■ AU-BNC32 external view



Please read the instruction manual before using the product, and keep it handy.

※ Specifications and appearance are subjected to change without prior notice.

- Contents of this description are as of May, 2005. ● Please inquire us about the latest information.
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