	Video IN	Accessories
nera I/F	Gigabit Ethernet (Camera is required to use specified model)	
ber of Channels	2ch	AC adapter
	100fps × 1ch (QVGA resolution : 240p)	<ul> <li>Microphone (1 pc.)</li> </ul>
ne Rate	30fps × 1ch (HD resolution : 720p )	Ear-phone (1 pc.)
	30fps × 1ch (HD resolution : 720p) * p: progressive	Installation Manual (1 pc.)
	Analog IN	<ul> <li>Operation Manual (included in CD)</li> </ul>
her of Channels	4ch	
oling	DC / AC / ICP™( TEDS applicable) Selectable for each ch.	Ontions
converter	delta-sigma (simultaneous sampling)	Options
Bandwidth[Hz]	40k   20k   10k   5k   2.5k   1.25k   630   100	
inding Sampling[Hz]	96k   48k   24k   12k   6k   3k   1.5k   240 (Bandwidth × 2.4)	Camera Basier ace series (specifie
uency Bandwidth[Hz]	40k   20k   10k   5k   2k   1k   500   100	
Sampling[Hz]	102 4k   51 2k   25 6k   12 8k   512k   256k   128k   256( Bandwidth × 256)	
Ing Outnut	None	Ace
resolutions	16bit / 24bit selectable	
t Range	0.01 / 0.0316 / 0.1 / 0.316 / 1 / 2 / 3.16 / 10 [V]	
amic Range	100dB (20kHz bandwidth, 1V rrange, 24bit mode )	Becording Media (Fast / SDHC ca
n Pass Filter	OFF / 5Hz (-12dB/oct)	
Pass Filter	OFE / 200 / 500 / 1k / 2k [Hz] (-12dB/act)	
olute maximum		MODEL MARK
t voltage	±50 V	SOTE AND
r-channel	20kHz band and below : within 1 degree	-A40
se difference	40kHz band and below : within 3 degrees	
™ Curent	4mA / 24V	Marke to JAPAN
<b>`</b>	Digital IN / Puise IN	CFast is a flash memory card with the SATA
)	All position data, Time data	which has enhanced format of the Compact and supports a higher maximum transfer rate
	All packets data recorded (2 signals monitor available)	
e	TCH (EILIIEI PUISE OF EXL. THIgger)	Remote Control ER-VRRC
	Other	22010
eo & Analog sync.	$\angle \pm /$ 1 fpc ( @ 20 fpc)	
uracy		
v while Recording	Video (1ch) / Analog Data / CAN	
ording START/STOP	Manual mode / Trigger mode	
gor	Level, Timer, Repeat, External	2 2
501	Pre Trigger, Post Trigger	Wired Remote Control Unit ER-VRRC
e Memo	Available	Battonunit
ording Media	CFast(up to 64 GB) / SDHC( up to 32 GB) *CFast media is required to record video	
chronization	LX-100 series / WX-7000 series, VR-24 x 2	144
	5.7 inch	1000
ration	Touch Panel + Button	- CGG



Recording Time (@ CFast 64 GB)						
	Camera	Analog * 4ch [hours : minutes]				
		96kHz / 24bit	48kHz / 24bit	24kHz / 24bit		
HD(1280x720 / 30fps)	1ch	2:37	2:57	3:09		
VGA(640x480 / 30fps)	1 ch	4:53	6:12	7:09		
	2ch	3:06	3:34	3:52		
QVGA(320x240 / 100fps)	1ch	5:21	6:58	8:12		
	_	11:34	23.08	46.17		

This table shows approximate times, and record time is different depending on video data.

**TEAC EUROPE GmbH.** 

Can Nun

Nur Cou A/E

Ana A/D Inpu Dyn Higt Low Abs inpu Inte phas

GPS CAN Puls

Vide Acc Viev Rec Trig

Void Rec Syn LCC

sions / Weight

Operating conditions

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Carrying Bag

TEAC





Records 2ch video, 4ch analog, CAN, GPS and Pulse in perfect sync. An All-In-One Data Recorder





Something is happening in test site that cannot find only by analog data analysis.

## The VR-24 answers When, Where, Why and How events heppen.

## Analog signal can be CAN, GPS and Pulse shown as waveform TEAC has innovated the analog and video recording technologies that have been used for decades in the field of testing environments. 0002 000:00:00 FLE VR24DAT\_000 002 001:00:14 VR24DAT 0002 The VR-24 is a data recorder that can record traditional video/analog signals along with CAN, GPS and Pulse data simultaneously in perfect sync. Support for wide bandwidth (40kHz). Because of its small lightweight design with battery operation capability, the VR-24 is an ideal stand-alone data recorder for on-site measurements. Η. These additional data can reveal "hidden details" in your recorded data that you never knew was there. 11:04:1 ANNILLA All-in-one & Stand-alone Analog Video CFast @ > 00-01:10 An all-in-one unit that records analog, video, CAN, GPS CEast 0 > 00-05:36 and Pulse data simultaneously in perfect sync. ЛЛ Portable for field use Pulse Small & lightweight design makes it easier to carry. Superior portability for field use. TEAC \*Can be operated on battery power (option). 01:02:03 Smaller than A4/Letter size **GPS** Small footprint Compact design (W 10 1/4 x D 7 3/8 x H 3 1/8 in) Light Weight Approximately 2.3kg/5lbs. Touch panel Large 5.7 inch touch panel allows intuitive operation. TOP + SYSTE Graphically designed top screen and setting menu provide intuitive **Optional Software** operation. Highly visible display allows users to check the recorded data Displays of synchronous recording data immediately after the measurements. LCD With a variety of display contents and in a single window full of useful functions, VR-24 is the data recorder for on-site measurement. For Viewing and Analysis Wide Bandwidth 40kHz /iew Fulfilling increasing demands for high frequency Optional VR-View allows you to view signal waveform, video and position data noise measurements on EV and turbo chargers recorded by VR-24, on a single display. The function of watching synchronized video required when downsizing engines. and waveforms would greatly help you analyze the phenomena you recorded. ◀ <mark>■</mark> ▶ ◎ 杉 杉 세 ▶ 🗒 🗉 🛄 🏩 🛔 🚼 🌺 🐂 👗 🖬 잼 팽 펌 🖳 및 및 및 및 🎴 🎕 System configurations ected devices and cables are not included with the product. og device input/ 4ch CAN

Cameras

[NMEA0183] 100000000 .......

GPS

Synchronized recording is possible with other TEAC data recorders such as WX-7000 and LX-100 series, as well as between two VR-24 units.

Microphone 3-axis accelerometer with a built-in pre-ampline ЛЛ Support for ICP™ sensors

Pulse



## **Display Example**



