Specification

Video IN

Camera I/F	Gigabit Ethernet (Camera is required to use specified model)
Number of Channels	2ch
Frame Rate	100fps × 1ch (QVGA resolution : 240p)
	30fps × 1ch (HD resolution : 720p)
	30fps × 1ch (HD resolution : 720p)　　　 * p : progressive

Analog IN

Number of Channels	4ch
Coupling	DC / AC / ICP™(TEDS applicable) Selectable for each ch.
A/D converter	delta-sigma (simultaneous sampling)
Sampling Frequency	Bandwidth[Hz] 40k | 20k | 10k | 5k | 2.5k | 1.25k | 630 | 100
	Sampling[Hz] 96k | 48k | 24k | 12k | 6k | 3k | 1.5k | 240　(Bandwidth × 2.4)
	Bandwidth[Hz] 40k | 20k | 10k | 5k | 2k | 1k | 500 | 100
	Sampling[Hz] 102.4k | 51.2k | 25.6k | 12.8k | 5.12k | 2.56k | 1.28k | 256(Bandwidth × 2.56)
Analog Output	None
A/D resolutions	16bit / 24bit selectable
Input Range	0.01 / 0.0316 / 0.1 / 0.316 / 1 / 2 / 3.16 / 10 [V]
Dynamic Range	100dB (20kHz bandwidth, 1V rrange, 24bit mode)
High Pass Filter	OFF / 5Hz (–12dB/oct)
Low Pass Filter	OFF / 200 / 500 / 1k / 2k [Hz] (–12dB/oct)
ICP™ Curent	4mA / 24V

Digital IN / Pulse IN

GPS	Position data, Time data
CAN	All packets data recorded (2 signals monitor available)
Pulse	1ch (Either Pulse or Ext. Trigger)

Other

Video & Analog sync. Accuracy	< +/- 1fps (@ 30fps)
View while Recording	Video (1ch) / Analog Data / CAN
Recording START/STOP	Manual mode / Trigger mode
Trigger	Level, Timer, Repeat, External
	Pre Trigger, Post Trigger
Voice Memo	Available
Recording Media	CFast(up to 64 GB) / SDHC(up to 32 GB) *CFast media is required to record video
Synchronization	LX-100 series / WX-7000 series, VR-24 x 2
LCD	5.7 inch
Operation	Touch Panel + Button
Dimensions / Weight	W260 x D186 x H77 [mm] / Approx. 2.3[kg]　(W 10 1/4 x D 7 3/8 x H 3 1/8 [inch] / Approx. 5 1/8 [lb.])

Recording Time (@ CFast 32 GB)

	Camera	Analog * 4ch		
		96kHz / 24bit	48kHz / 24bit	24kHz / 24bit
HD(1280x720 / 30fps)	1ch	1:18	1:29	1:34
VGA(640x480 / 30fps)	1ch	2:25	3:08	3:34
	2ch	1:32	1:48	1:56
QVGA(320x240 / 100fps)	1ch	2:38	3:31	4:05
—	—	5:39:00	12:06	22:04

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

Equipped foot standing

Accessories

- AC adapter
- Microphone (1 pc.)
- Ear-phone (1 pc.)
- Installation Manual (1 pc.)
- Operation Manual (included in CD)

Options
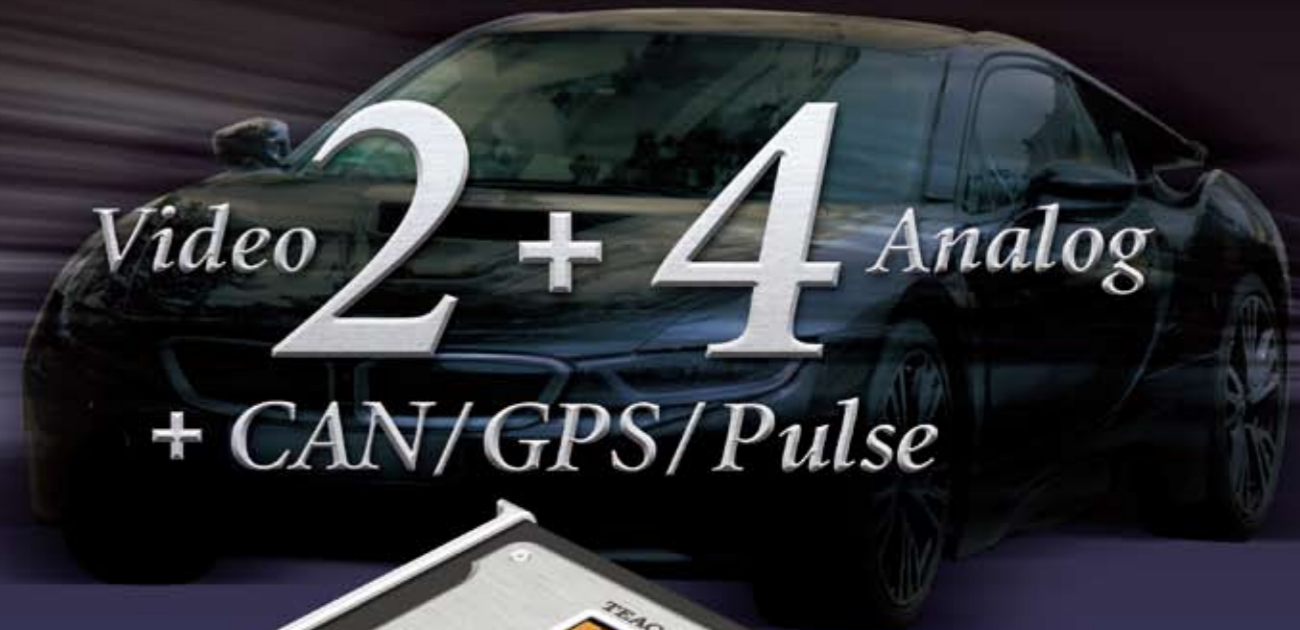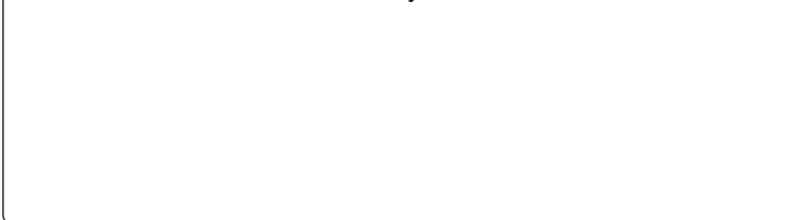
- Camera Basler ace series (specified model)
- Recording Media CFast / SDHC card
- Remote Control ER-VRRC

  Wired Remote Control Unit ER-VRRC
- Battery unit

  Battery unit is attached.
  * Battery and Battery Charger are not included.
- Carrying Bag

TEAC Data Recorder Products Distributed by:

Video **2+4** Analog + CAN/GPS/Pulse

There is something you will never be able to analyze using only NVH analog data from the testing field.

Records 2ch video, 4ch analog, CAN, GPS and Pulse in perfect sync.
An All-In-One Data Recorder
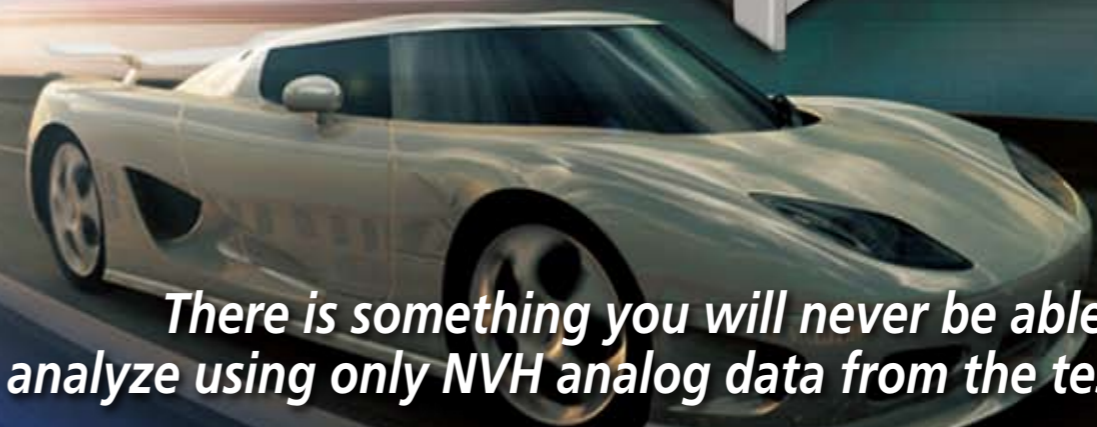
There is something you will never be able to analyze using only NVH analog data from the testing field.

TEAC has innovated the analog and video recording technologies that have been used for decades in field testing environments.

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.
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.
These additional data can reveal "hidden details" in your recorded data that you never knew were there.

Display Example

Analog signal can be shown as waveform

Touch panel allows intuitive operation

Recorded video and data can be reviewed on this screen.

All-in-one & Stand-alone

An all-in-one unit that records analog, video, CAN, GPS and Pulse data simultaneously in perfect sync.

Video · Analog · CAN · Pulse · GPS

Portable for field use

Small & lightweight design makes it easier to carry.
Superior portability for field use.
*Can be operated on battery power (optional).

Smaller than A4 size

Small footprint
Compact design W260 x D186 x H77 mm
(W 10 1/4 x D 7 3/8 x H 3 1/8 in)
smaller than A4 size

Light Weight

Approximately 2.3 kg (5 lbs.)

Touch panel

Large 5.7 inch touch panel allows intuitive operation.

Wide Bandwidth 40kHz

Fulfill increasing demands for high frequency
noise measurements on EV and turbo chargers
that are required when downsizing engines.

For Various Kinds of Automotive Testing
Completed Vehicle Inspection / Claim Investigation / Parts Evaluation / Driving Stability Test, etc.

System configurations

Connected devices and cables are not included with the product.

CAN

GPS
[NMEA0183]

Analog device input/ 4ch

3-axis accelerometer
with a built-in pre-amplifier

Microphone

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.

Pulse

Cameras

For Viewing and Analysis

Optional Software
VR View
WaveMonitor

Optional VR-View allows you to view signal waveform,
video and position data recorded by VR-24, on a
single display. Having a way to watch synchronize
video and waveforms would greatly help you analyze
the phenomena you recorded.

OS supported : Windows 7/ Windows 8 / Windows 8.1

- Waveform display
- CAN signal view
- FFT Analysis
- GPS position data mapping
- Data extracting
- File conversion

Optional accessories   Camera Basler ace series (specified model), Recording media (CFast / SDHC card), Remote Control Unit, Battery Unit, Carrying Bag