# DARC/RTIC DECODER
MDC-2176

Save of up to 28 days worth of continuous data captured from FM multiplex broadcasts

- Small and light unit
- Wideband 76–108MHz
- Compatible for use with an in-car power supply
- Simultaneously record GPS location information
- USBSave 28 days of continuous recording onto a USB flash drive (8 GB)

Field Use Image

GPS antenna

MDC-2176

MEGURO   MDC-2176 DARC DECODER

Save hours of data to a USB flash drive

・DARC data
・GPS data
・Signal reception log

Uses a cigarette lighter socket

Is there reception in a mountainous area?

Is there reception in an area with high-rise buildings?

Can we always guarantee normal broadcast transmission?

What is our reception range?
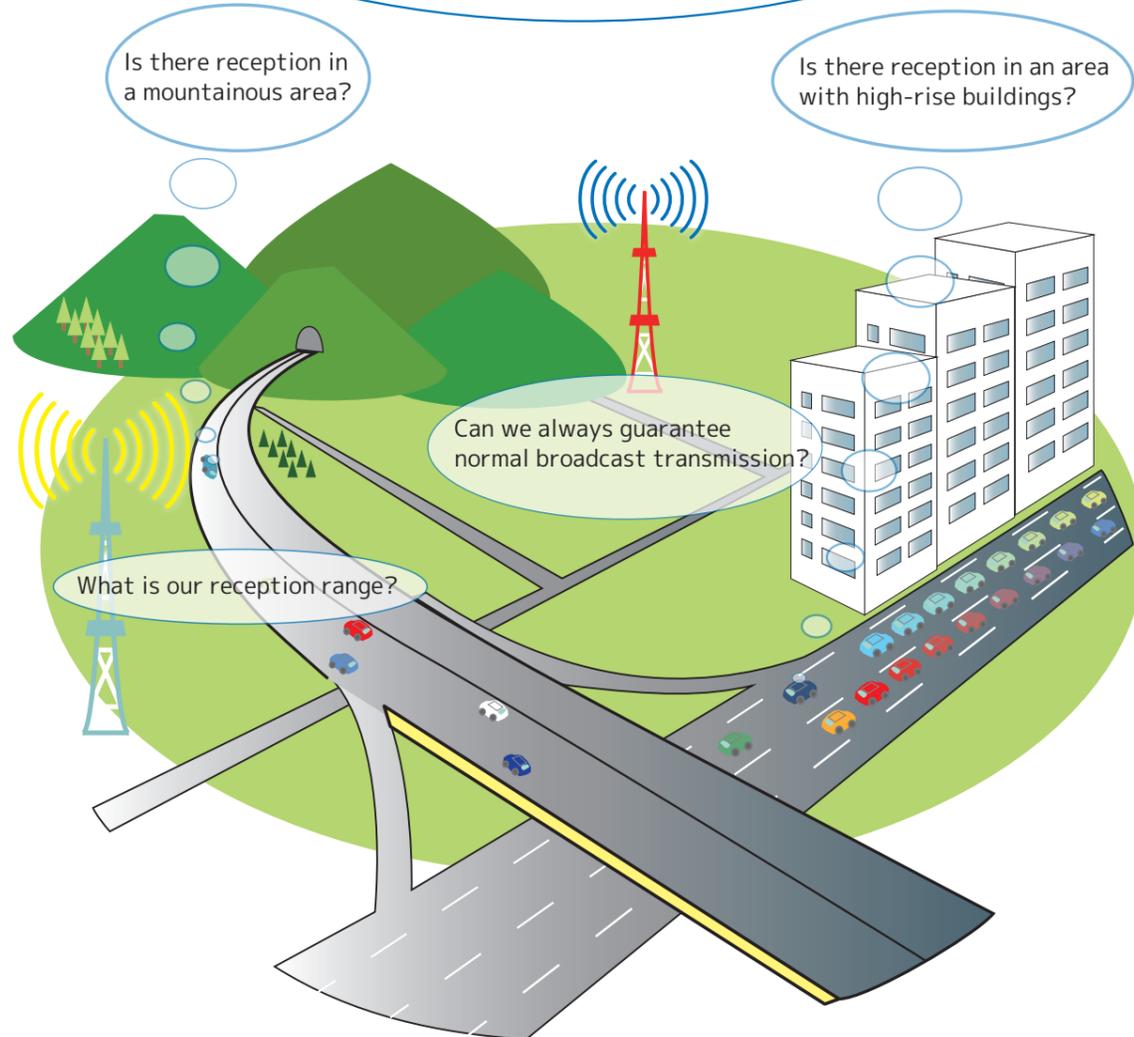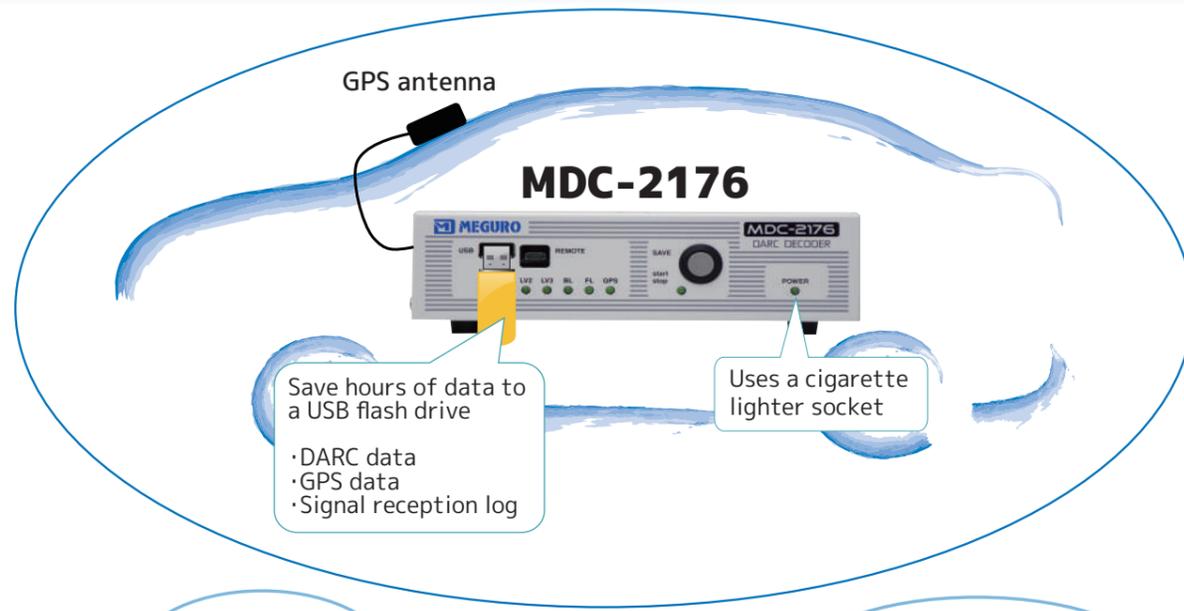
Useful Functions

Save to a USB flash drive

Directly back-up data hours of data

Application

Set the reception frequency
See the status of data being saved
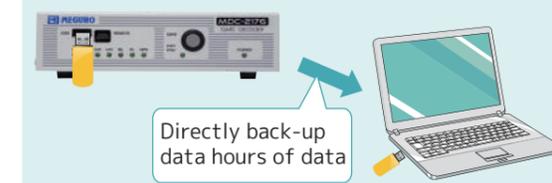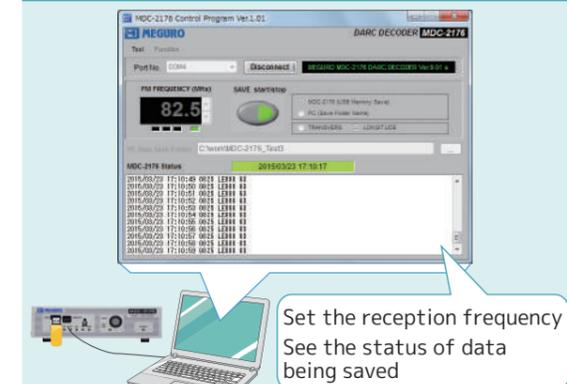
Divide data by event changes

Extract desired data using the visual display which highlights change-points in saved data

Analyze extracted data on a PC or play it back with the encoder

Input extracted data into the encoder

Playback the event on a car navigation system
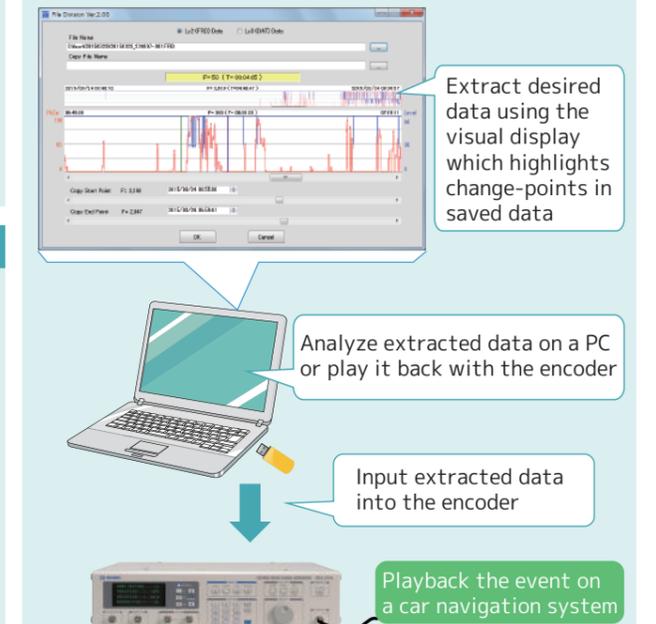
Data division using GPS data

Input section coordinates from GPS footprint data

Extract desired data using the visual display which highlights sectional change-points
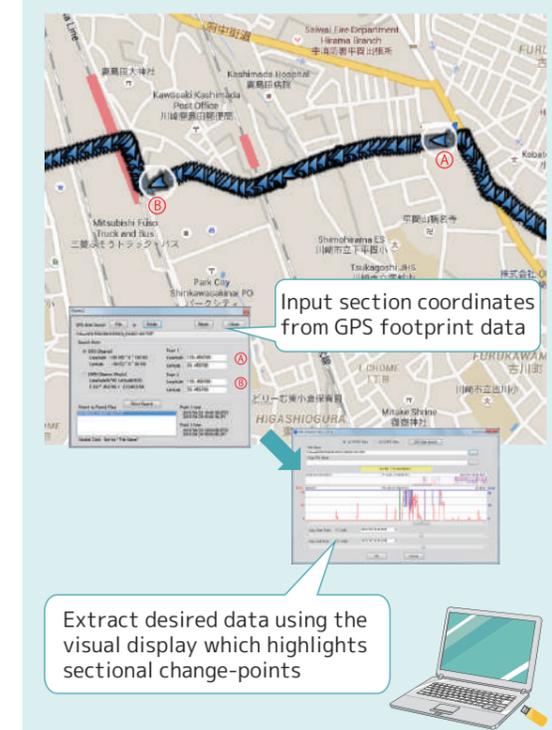
Playback using DATA&CLOCK output and the encoder

Send data from change-points or playback for a long-period by a specified USB file

Send data from USB to encoder using DATA&CLOCK

Use a car's navigation system to conduct long-period playback tests
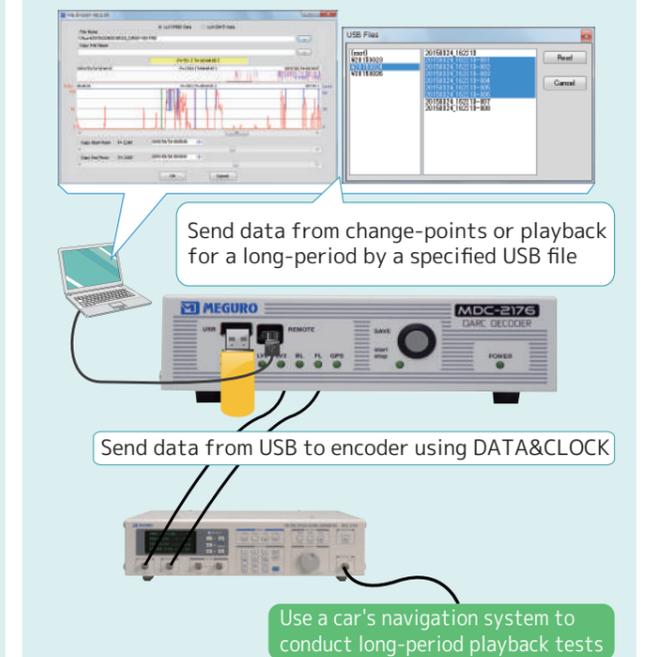
※If you use the memory management option (extra charge), you can perform operations such as extracting parts of the data.

Specification

Basic Specification	
FM reception frequency	76.0MHz–110.0MHz (100kHz steps)
RF input level	40dBuV～100dBuV
RF input terminal	BNC（75Ω）
Data storage capacity	External memory (USB storage)
Status LEDs	POWER (green)
	GPS (green) : GPS receiving OK
	BL (green) : BLOCK LOCK OK
	FR (green) : FRAME LOCK OK
	SAVE (green) : Saving DARC data
	RF (green) : RF input OK
	LV (green)×3 : Reception level (weak/average/strong)
Save button	Press to start/stop DARC data save
Output terminal	CLOCK output terminal BNC（3.3V）
	DATA output terminal BNC（3.3V）
GPS terminal	GPS antenna connection SMA

Other	
Power-supply voltage	AC adapter DC12V output（2A）
	input AC 100V–240V (switch mode)
Unit dimensions	H45 × W170 × D165 (mm) (excluding protruding parts)

Interface	
	USB2.0 (Type A) Hi-speed capable, use with a USB flash drive
	USB2.0 (micro B) Hi-speed capable, for use with a remote

Items included		Accessory kit (sold separately)	
	AC adapter		USB cable (TypeA - MicroB)
	USB flash drive		Cigarette socket connecter
	GPS antenna		Rod antenna

Function

Function	Description
DARC data save	Save received DARC data to a USB flash drive (save layer 2 and layer 3 simultaneously)
Saved data	Saved data is managed using files.
	Directly import the data saved onto a USB flash drive into a PC.
Save start/ stop button	Start and stop recording data with the save start/stop button on the front panel.
	Conditions such as receiver frequency must be set up in advance using a dedicated application.
DARC data save 2	Transfer and save in real-time received DARC data to a PC.
(PC transfer save)	Connect a PC by USB and simultaneously save layer 2 and layer 3 onto the PC.
DATA & CLOCK output	Output the DARC data being received or saved DARC data using the DATA & CLOCK output on the back of the unit (layer 2 only)
	※ The user can choose whether to output either data being received or saved data when using the DATA & CLOCK output.
	※ Data cannot be saved while using the DATA & CLOCK output.
Memory management option	The user can set the start and finish frames when using DATA & CLOCK output. (extra charge)

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