

# Trace Series RS1

## Rotary Switch

Contact

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www.taeha.co.kr

The Trace Series - RS1 is basic rotary switch controller which allows navigating display integrated with custom-built 6 hot-keys. RS1 makes it easy for driver to operate the function of cabin controlling multi-function knob and hot-keys.



### For your

Construction  
Equipment



Agricultural Machinery &  
Equipment



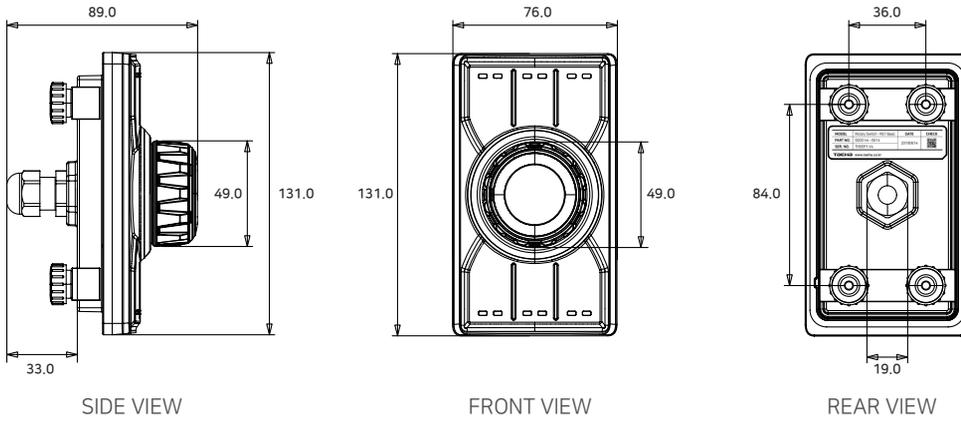
Mining &  
Heavy Equipment



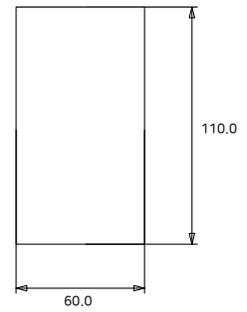
Off-Highway



## Dimensions



## Installation Dimension



- **Multi-function Knob**
  - Push function to select the menu
  - CW&CCW 360° rotation to move menu and adjust value
- **Custom-built 6 hot-keys**

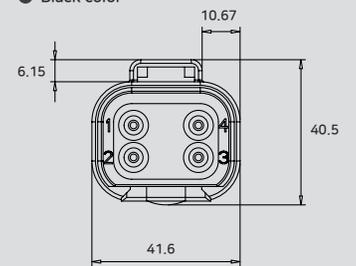
## Key Features

Sort	Specification
General	Working Voltage : 8 to 38VDC Supply Voltage : 12VDC or 24VDC
	Operating Temperature : -30 ~ +80°C Storage Temperature : - 40 ~ +80°C
	Push function
Knob	Rotary function (CW & CCW -360°) Lifecycle : 1,000,000 Cycles
	Custom-built 6 buttons and LED Indicators cover with rubber
Interface	1ch CAN 2.0B (SAE J1939, CAN open)
Sealed to	IP65
Connector	Main : DT04-4P-CE02 (4 pins) Download : DT04-4P-CE01 (4 pins)
Programming system	Embedded

\* Preliminary Specification

## Main Connector

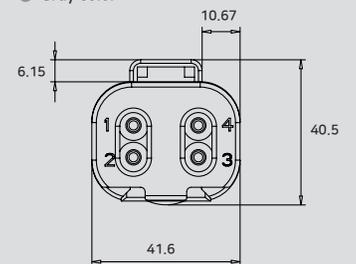
● Black color



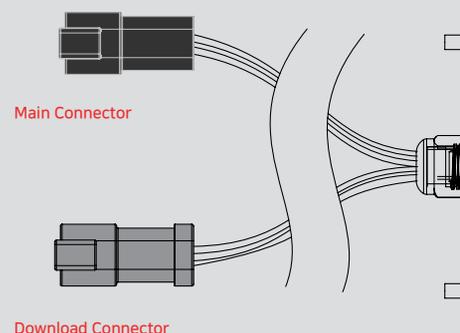
**STE** DT04-4P-CE02  
(4 pins)

## Download Connector

● Gray color



**STE** DT04-4P-CE01  
(4 pins)



Download Connector

Contact

# Dash Series DOT

## Circular Cluster

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The Dash Series - DOT is compact circular cluster which its diameter 103 mm and IP66 rating for protection. This is ideal solution for off-highway and compact size of construction and agricultural equipment.



### For your

Construction Equipment



Agricultural Machinery & Equipment



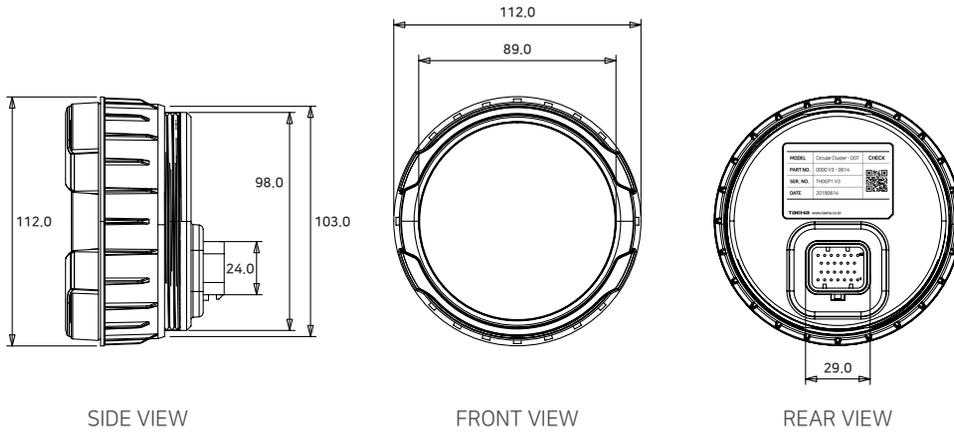
Mining & Heavy Equipment



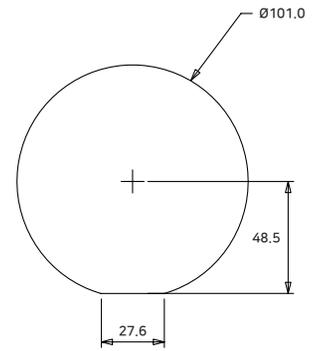
Off-Highway



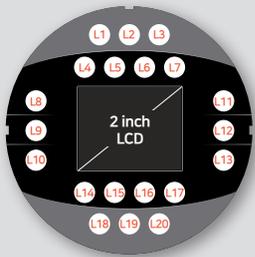
## Dimensions



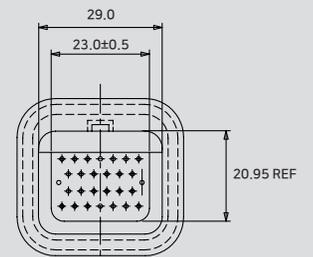
## Installation Dimension



- Customizable front design, bezel, and dial plate UI to suit customers needs
- Dimension :  $\varnothing 102$ , External frame :  $\varnothing 112$
- 20 hard telltales



## Connector



**STE** Tyco 6437288-6 (26 pins)

## Key Features

Sort	Specification
General	Working Voltage : 10 to 15VDC Supply Voltage : 12VDC
	Operating Temperature : - 20 to + 70°C Storage Temperature : - 30 to + 80°C
	2.0" / TFT LCD
LCD	Normally white/ Transmissive 176 x 220 Color display (262K) Backlight : LED, 350 cd/m <sup>2</sup> (30,000 hrs. lifetime)
Function	Buzzer (Integrated), RTC (Option)
Interface	1ch CAN 2.0B (SAE J1939, CAN open)
Sealed to	IP66 (front), IP65 (rear)
Connector	Tyco 6437288-6 (26 pins)
Programming system	Embedded

\* Preliminary Specification

## Plastic Ring Clip



The plastic ring clip need to fix into the dashboard installation area.

Contact

# Dash Series UNO

## Basic Instrument Cluster

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The Dash Series - UNO is basic type of instrument cluster which is sleek and robust design, and has highly readable typography itself. This is ideal solution in common use for various off-highway vehicle, construction, and agricultural equipment as well.



### For your

Construction  
Equipment



Agricultural Machinery &  
Equipment



Mining &  
Heavy Equipment



Off-Highway





Contact

# Flat Series CUBE

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www.taeha.co.kr

## HMI (Human-Machine Interface) 4.3inch Display

The Flat Series - CUBE is 4.3" TFT LCD with direct bonding display for use on small off-highway vehicle, construction, and agricultural equipment. CUBE is compact size of off-the-shelf display as well as IP67 rating for protection and has the function of visualizing the vehicle parameters on the display.



### For your

Construction  
Equipment



Agricultural Machinery &  
Equipment



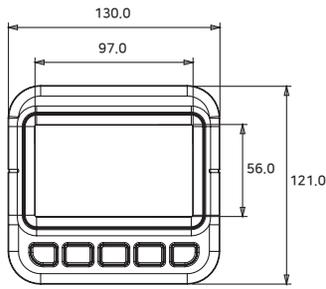
Mining &  
Heavy Equipment



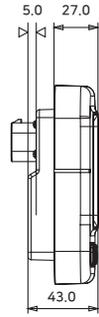
Off-Highway



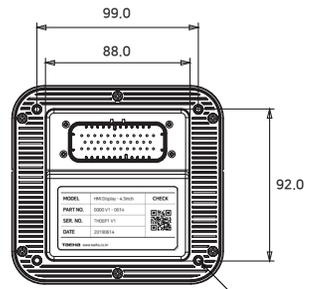
## Dimensions



FRONT VIEW

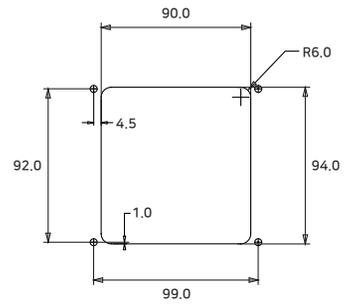


SIDE VIEW

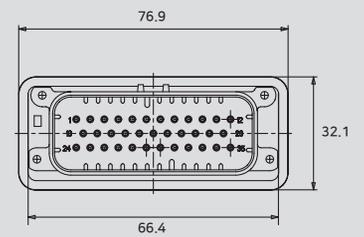


REAR VIEW

## Installation Dimension



## Connector



**AMP**  
2-6447232-3 (35pins)

## Key Features

Sort	Specification	CODESYS
General	Working Voltage : 10 to 15VDC	
	Supply Voltage : 12VDC	
	Operating Temperature : - 20 to + 70°C	
	Storage Temperature : - 30 to + 80°C	
LCD	4.3" Direct Bonding / TFT LCD	
	WQVGA ( 480 x 272 ) 16:9 Land Scape 16 bit Color display	
	Backlight : LED, 900-1000 cd/m <sup>2</sup> (30,000 hrs. lifetime)	
System Interface	STM32H743ZIT, 32bit Cortex-M7, 480 MHz	32bit, 400 MHz
	2 MB Flash Memory up to 1MB RAM	2 MB Flash Memory up to 1MB RAM
	NOR Flash(16MB), EEPROM(16KB), Serial Flash(4MB)	NOR Flash(16MB)
Interface	2ch CAN 2.0B(SAE J1939, CANopen)	
Connector	AMP 2-6447232-3	
IP Rating	IP67 front and back	
Key	5 buttons	
Programming system	Embedded	CODESYS 3.5 version
Real-Time Clock	With battery backup	

\* Preliminary Specification

# ECU

## Electronic Control Unit

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www.taeha.co.kr

- Electrical Control solution for construction equipment and the off-highway vehicles
- Improving fuel efficiency and operation pace by controlling hydraulic pump
- High-performance based on embedded and CODESYS Support (Ver. 3.5.)
- Self-protection and self-diagnosis
- High-reliability



MODEL	
PART NO	
SER. NO.	
MODEM NO	
DATE	
CHECK	OK

### For your

Construction  
Equipment



Agricultural Machinery &  
Equipment



Mining &  
Heavy Equipment



Off-Highway



## Parameter

General	Specification
Supply Voltage	12/24 [Vdc]
Working Voltage	9 ~ 36 [Vdc]
Operation Temperature	-40 ~ 85 [°C]
Storage Temperature	-40 ~ 105 [°C]
Supply Current	< 25 [W]
Connector	77163-1 (AMP) : 35 Pin (water-proof)

## I/O Configuration

Item	Specification	Channel	Note
1 CPU	ARM 400MHz		
2 System Flash	2MByte	-	
3 Application RAM	8MByte		
4 EEPROM	32kByte		
5 Application Flash	32MByte		
6 Analog Input	Voltage Type (0 ~ 6.6 [V]) Voltage Type (0 ~ 3.3 [V], 6.6 [V])	10	Share
7 Digital Input	Threshold (5V, 10V)	11	Share
8 Pulse Input	Variable level pulse input (Variable Threshold)	5	Share
9 Digital Output (PWM)	PWM Frequency : 60 ~ 4k [Hz] Dither amplitude range : 0 ~ 30 [%] Dither frequency range : 50 ~ 400 [Hz] Load current measurement range 0 to 2.5 [A] Self-protection, Self-diagnosis	12	Valve Control
10 CAN	CANOpen, SAE J1939, 125K ~ 1Mbit	2	

## Environment Standard

General	Specification	General	Specification
EMC	ISO7632-2,-3	Ingress Protection	JASO D001-94
	ISO11452		JIS D0203
	EN13309		KS R1063 F2/ JIS D0207
	CISPR25		IEC60529(IP67)
ESD	IEC61000-4-2	Climatic	JASO D001-94
Electrical	JASO D001-94		ISO16750-4
	IEC61000-4-4		JASO D902-95
	NECA TR-28	Mechanical	ISO16750-3
	ISO16750-2		JIS C 0041
	JIS D 1601		
			JIS D 0205

# Flat Series DUKE

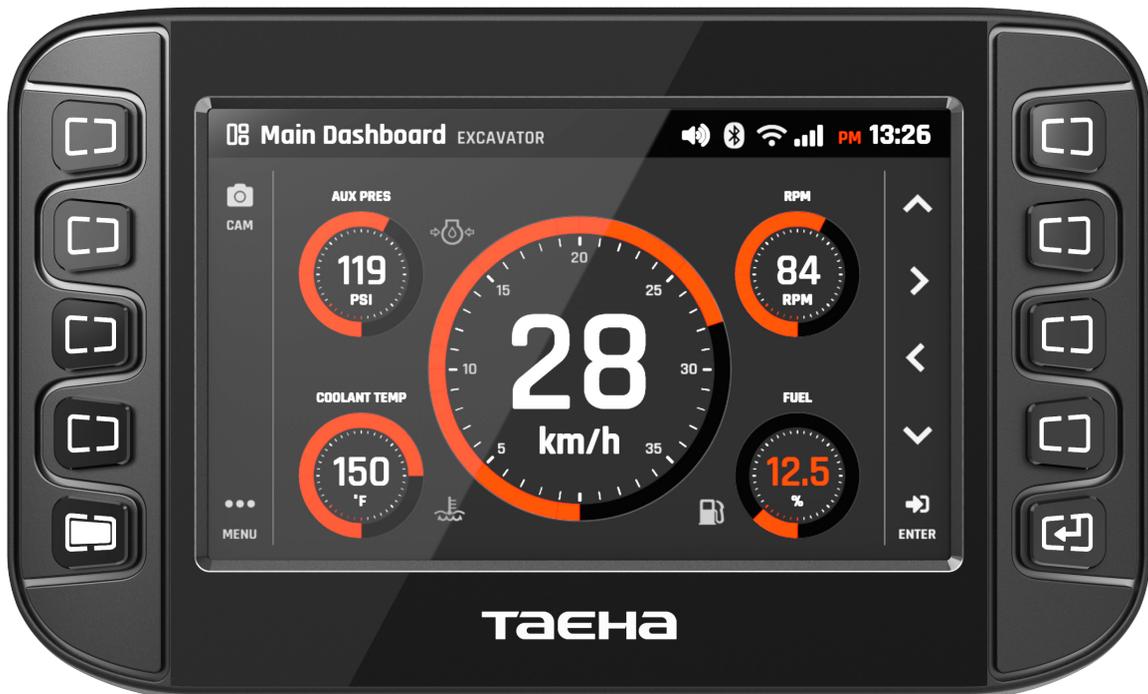
Contact

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## HMI (Human-Machine Interface) 7inch Display

www.taeha.co.kr

The Flat Series - DUKE is 7" TFT LCD with direct bonding display for use on big off-highway vehicle, construction, and agricultural equipment. DUKE is the display with 10 buttons as well as IP67 rating for protection and has the function of visualizing the vehicle parameters on the display. It also supports channel of camera and driver's instinctive indications.



### For your

Construction  
Equipment



Agricultural Machinery &  
Equipment



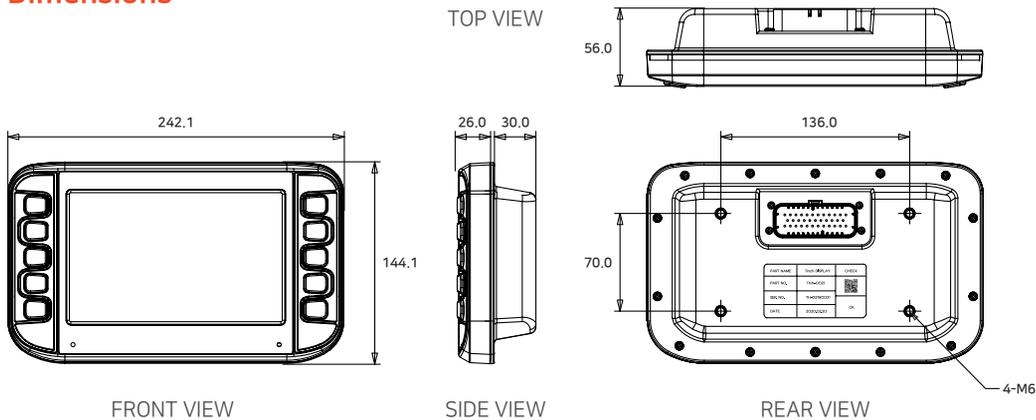
Mining &  
Heavy Equipment



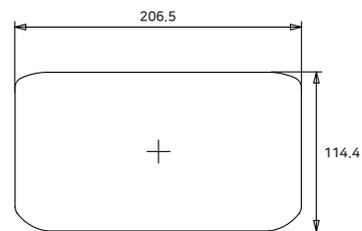
Off-Highway



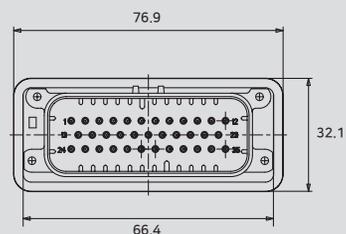
## Dimensions



## Installation Dimension



## Connector



**AMP**  
2-6447232-3 (35pins)

## Key Features

Sort	Specification
General	Working Voltage : 11 to 32VDC / Supply Voltage : 12VDC or 24VDC
	Operating Temperature : - 30 to + 70°C
	Storage Temperature : - 40 to + 80°C
LCD	7" Direct Bonding / TFT LCD
	WVGA (800 x 480), 24bit Color display
	Backlight : LED, 500 cd/m2
System Interface	i.MX 6 Solo
	4GB Flash Memory, 1G RAM
	GPU Supporting 2D and 3D graphics (Open GL, etc.)
Interface	2ch CAN 2.0B(SAE J1939, CANopen)
Connector	AMP 776231-1
IP Rating	IP67 (front), IP65 (rear)
Key	10 buttons
Programming System	Linux
Real-Time Clock	With battery backup

\* Preliminary Specification

# Flat Series DUKE plus<sup>+</sup>

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www.taeha.co.kr

## HMI (Human-Machine Interface) 7inch Display

The flat series - DUKE Plus 7" TFT LCD with direct bonding display for use on big off-highway vehicle, construction, and agricultural equipment. DUKE Plus is the display with none-button as well as IP67 rating protection and has the function of visualizing the vehicle parameters on the display. It also supports channel of camera and driver's instinctive indications.



### For your

Construction  
Equipment



Agricultural Machinery &  
Equipment



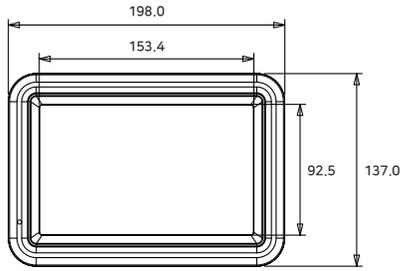
Mining &  
Heavy Equipment



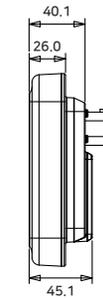
Off-Highway



## Dimensions

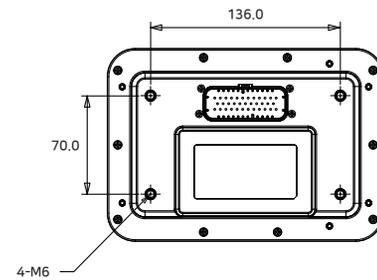
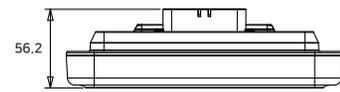


FRONT VIEW



SIDE VIEW

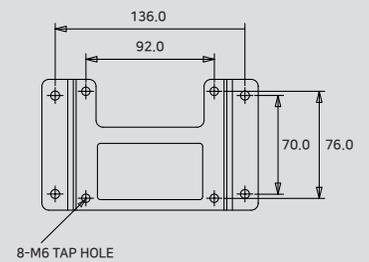
TOP VIEW



REAR VIEW



## Installation Bracket

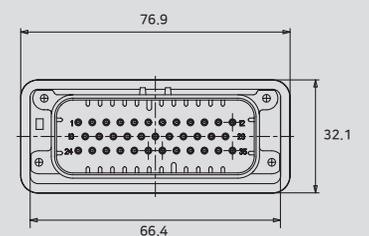


## Key Features

Sort	Specification
General	Working Voltage : 11 to 32VDC / Supply Voltage : 12VDC or 24VDC
	Operating Temperature : - 30 to + 70°C
	Storage Temperature : - 40 to + 80°C
LCD	7" Direct Bonding / TFT LCD
	WVGA (800 x 480), 24bit Color display
	Backlight : LED, 500 cd/m2
System Interface	i.MX 6 Solo
	4GB Flash Memory, 1G RAM
Interface	GPU Supporting 2D and 3D graphics (Open GL, etc.)
Connector	2ch CAN 2.0B(SAE J1939, CANopen)
Connector	AMP 776231-1
IP Rating	IP67 (front), IP65 (rear)
Touch Type	Option (Capacitive)
Programming System	Linux
Real-Time Clock	With battery backup

\* Preliminary Specification

## Connector



**STE** AMP  
2-6447232-3 (35pins)