

DIGITAL REVOLUTION SPEEDOMETER DIGITAL COUNTER CATALOG





DIGITAL TACHOMETER Panel Model 3 Digital Revolution Speedometer **DIGITAL COUNTER Panel Model** 4 With Operational Function Reversible Integration Counter **DETECTOR** 5 With Rotary Encoder **Adjacent Switch** Roller Type Encoder **Gear Sensor PERIPHERALS** 6 **Large** Type Indicator **Micro Printer** Common Use Type Pen Recorder **DIGITAL REVOLUTION SPEEDOMETER Hand Held Type** 7 Hand Held Type Revolution Speedometer **DIGITAL SCALING METER** 8 **STROBOSCOPE** 9

Handy Type LED Stroboscope

Multi-Lamp Form Deferred Type LED Stroboscope

Digital Stroboscope



HANDY TYPE LED STROBOSCOPE

DT-325/326

- For checking scratches, cracks, burr, and oscillation on gear meshing of high speed revolution machine.
- •For revolution speedometer.



- •In the lamp, long life high luminance white LED is employed. Visibility of high speed revolution area is improved.
- ·Handy mini type light-weight (500g)
- •Ultra wide scope of measuring range of $60 \sim 120,000$ fpm * $(1 \sim 2000 \text{ Hz})$
- ·Even abroad, could be used with relaxation, with CE mark.
- •With input/output signal. Radiation synchronized with revolution machine is possible (only DT-326)
- •With phase variation function. Rested image phase is possible. (Can be checked by taking a snap)

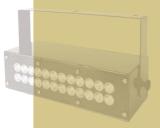
Multi-Lamp Form Deferred Type LED STROBOSCOPE

DT-329

• For checking scratches, cracks, pin-hole etc. of seal printing, gravure printing, and form printing.



- In the lamp, long life high luminance white LED is applied. Visibility of high speed revolution area is improved.
- •Ultra wide scope of measuring range scope 60 120,000 fpm* (1 2000 Hz)
- ·Corresponds to high revolution printing machine
- ·With outer parts input/out.



*fpm.. is the Luminous frequency per minute

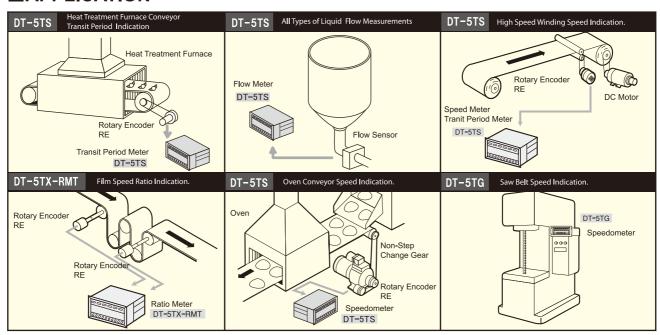
DIGITAL REVOLUTION SPEEDOMETER Panel Model



Most suitable for measuring revolution speed, speed, and transit period

- High function with low price
- Enhanced IP66 equivalent (front panel)
- Corresponds to wide range signals
- DIN size of 96mm x 48mm, reduced to 92mm length (DT-5TS, DT-5TL)
- With W sub-display, can multi-display at one time. (not possible for DT-5TP, DT-5TG)

APPLICATION



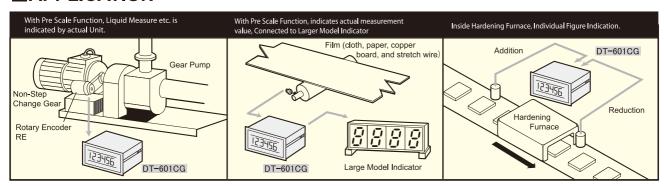
Model		DT-5TX/DT-5TF			
Action Mode		Revolution Speedometer Mode/Flow Meter Mode	Transition Period Meter Mode	Time Span Mode	
			0:00:00~0:59:59	0:00:00~0:59:59	
Display	No.1	0~999999/6 Digits	(Hr,Min, and Sec 60 Adv. Indication)	(Hr,Min, and Sec 60 Adv. Indication)	
	No. 2	-	0.00~999:99 (Second : 1/1	00 Sec. 10 Adv. Indication)	
		Main Display Parts: Red Color 7 Segments LED. Letter Height 15mm 6 Digits			
Disp	lay Parts	Sub Display Parts (2Nos): Green Color 7 Segments LED Letter Ht.6.5mm.			
		6 Digits + 6 Digits Indication Possible.			
Inpu	ıt Scope	0.0067Hz ~ 100k Hz 10ms~3600s		10ms~3600s	
Pro sec	lo Eupetion	Parameter setting system through front panel key,			
Pre-scale Function		indication value instructions (Combining) also possible.			
Upper Lower Limit Value		Upper lower limit value could be displayed through green LED to sub display parts			
Preventive Structure		Front Panel IP66 (Equivalent), Back Part Terminal Platform IP20			
Outer Dimensions		W96 x H48 x D134mm(DIN)			



With Operational Function Reversible Integration Counter

- Front surface water-drop proof specifications (IP66Equivalent)
- Free current between 85-264V
- Corresponds to RoHS orders
- BCD output, analog output Corresponding option possible

APPLICATION



Model	DT-601CG	
Movement System	Adder, Reducer, Adjustable	
Display Equipment	LED 6 Digit, Letter Height 14mm, Red Color	
Display Scope	-1099998	
Counting Scope	3 Round Stop, Endless, Over Rotation Display Selection Possible.	
Pre-scale	Per 1 Signal Multiplication Factor 1x10 ⁻⁹⁻ 9999 free Setting	
Decimal Point Indication	Decimal Point Less than from 1 Digit to 3 Digits free selection possible	
Power-Off Memory	100,000 times within 10 years.	
Input System	Individual, Order, Phase Contrast (RE Type)	
Input Signal	NPN Open Corrector Signal, Voltage Pulse Signal (< L:2V, H3.8~30V)	
Re-set System	Manual Reset, Outer Parts Reset	
Outer Parts Re-set Signals	> 50ms NPN Open Corrector or Existing Connection Point Signal	
Calculation Ban Signal Response Time	> 50ms NPN Open Corrector or Existing Connection Point Signal	
Current Output for Sensor	DC12V±10% 100mA MAX (By Option 24V 60mA possible)	
Suitable Detector	Rotary Encoder, nearby connecting switch, Gear Sensor, Contact	
Working around Temperature	0 ~ 45°C	
Working around Humidity	30 - 80% RH (however, condensation not allowed)	
Working around Atmosphere	No Corrosion Gas expected	
Electricity Consumption	AC Current Less than about 20VA. DC Current Less than about 6VA	
Current	AC Specification 85-264V(50/60Hz), DC Specification 12-24V(±)10%	
Case Material	Cabinet : ABS Rasin with Glass (Black Color), Terminal Stand P.B.T. Black Color	
Outer Dimensions/ Weight	W96 x H48 x D130mm/About 400 g.	
Protection Level	IP66 Equivalent (Front Face Part)	
Accessories	Terminal Stand Cover: 2Nos. (Acrylic Transparent) Rubber Packing (NBR Black) Unit Label	



RE SERIES DETECTION ROLLER



ROTERY ENCODER

Shaft Direct Type Photo-Electric Form Revolution Detector

- . Revolution Torque is extremely small and hence without loading the targeted measurement object, per revolution output pulse figure could be detected.
- . Corresponds to wide scope revolution detection from low speed to high speed

Model	RE-1 (1mutual output: for revolution speed meter, For Addition Counter)	RE-2 (2 mutual output for reversible integration counter)	
Output pulse figure and working revolution speed scope	60 pulse : 0~5000rpm 600 pulse : 0~5000rpm	30 pulse 0∼5000rpm	
Supply voltage.current	DC+4.75V~+30V Less than 50mA	DC+4.75V~<+30V Less than 60mAMax.	
Response Frequency Protection Structure	100kHz IP50		

^{*} Other pulse figures are also available. Please inquire

SERIES

Detection Roller (sold separately)

Connecting to rotary encoder (30P/r), measurement values in cm could directly be indicated for measuring length and circumferential speed.



SERIES

SE-P12 SE-P12-1



ADJACENT SWITCH

SE-P12

PNP Open Corrector Output - One Revolution One Pulse Type. Oscillation Type Revolution Detector.

SE-P12-1

PNP Open Corrector Output - One Revolution One Pulse Type. Oscillation Type Revolution Detector.

Detection Gear is not necessary. Detection is possible only by installing the convex part at one place to the revolving body.

Model	SE-P12	SE-P12-1	
Supply Voltage	DC12V-24V, Working Voltage 10V-30V		
Current Consumption	Less than 10mA		
Responding Frequency	MAX 1500 Hz		
Output Form	PNP Voltage Output	NPN Open Corrector	
Working Distance	Less than 2mm(In case of detection body - 12x12xThickness 1mm)		
Detection Body	Magnetic Body, Metal Protuberance		



SERIES

SE-T2



ROLLER TYPE ENCODER

Encoder making easy measurement possible for length or speed.

- •Pulse Output of 2 kinds viz. 10cm/p and 1cm/p are series.
- •Even with no pre-scale function Indicator, Length Display is made easy.

Model	SE-T2-100	SE-T2-10	
Supply Voltage	DC12V		
Current Consumption	Less that	an 10mA	
Responding Frequency	MAX 2	20k Hz	
Output Pulse	10cm/p	1cm/p	
Pulse Per Rotation	3 Pulse	30 Pulse	
Output Signal	Phase Difference 2 Phase Signal, Voltage Pulse,		
	Output resistance 4.7kΩ		
Roller	Outer circumference 300mm±0.1%		



Gear Sensor SE-G



GEAR SENSOR

For collective detection gear type, high resolving power and adjacent sensor

The gear teeth count detection is possible so also stabilized detection from low speed to high speed is possible.

Model	AC-G	
Supply Voltage	DC+8.5V - +16V	
Current Consumption	Less than 50mA	
Responding Frequency	0-8000Hz(In case of Module 1.0)	
Movement Distance	0.4-1.0mm(In case of Module 1.0)	
Detection Body	Module 1.0-1.5	
Detection Body	Gear of magnetic metal with more than 0.4mm tooth-width.	

PERIPHERALS



SERIES

COP-3S COP-4S COP-5S COP-6S COP-3M COP-4M COP-5M COP-6M CO



LARGE TYPE INDICATOR

Corresponding to wide range all types of display - Large Type Indicator

Production Line Display Equipments of Industries, Time Table Displays, Parking Lot Displays, Hospital Medication Number Display, Article Flow Advancement Display, Sports Score Board Display etc.

Letter Height: 80mm, 120mm, 200mm No.of Digits: 3Digits, 4 Digits, 5 Digits, 6 Digits * Corresponding to DT-601CG-B



SERIES

FGT-24P



MICRO PRINTER

BCD 6 Digit Parallel Data or selection is possible through the 2 input modes of Centronix conformity data.

- . Arrangement of 250 varieties of unit printing
- . Index No. up to 4 digits -printing
- . Printing alignment selection possible
- . With positive and negative logic conversion ability
- . With interval printing ability (3 Seconds to 1Hour: 9 Varieties)



SERIES

FGT-PR2



COMMON USE TYPE PEN RECORDER

Pen recorder corresponding to analogue output recording.

- . High accuracy of large in model line
- . Low price, light-weight, and compact
- . With usage of Cartridge Sign Pen, clean sweep ink trouble.

DIGITAL REVOLUTION SPEEDOMETER Hand-Held Model



SERIES

NON-CONTACT MULTI-USE

DT-205LR DT-207LR







SERIES

CONTACT TYPE

PH-100A

NON-CONTACT TYPE

PH-200L PH-200LC



HAND HELD MODEL REVOLUTION SPEEDOMETER

. Through Reflection Tape, Non-Contact Measurement and with Adapter fitting, Contact Measurement is possible.

Measurement by pasting 2~5 Reflection Tapes.



●In case of N=5

- . Applying Laser to the Light Source.
- . Case is very much light and with excellent endurance made up of Aluminum Casting.

MODEL	DT-205LR	DT-207LR		
Measuring Range	6 - 99,999 RPM			
., .,	±1 RPM : 6 - 8,300 RPM			
Accuracy	±2 RPM : 8,300	- 25,000 RPM		
, and the second	±0.006 % of reading ±1 digit (or 2 RPM max.) : 25,000 - 99,999 RPM			
Display	5 digit 0.47" (12 mm) high LCD	5 digit 0.4" (10 mm) high LED		
	RPM (on contact usi	ng adapter, included)		
Measuring Units	For rate : YPM, mPM, FPM, IPM and length : YRD, m, FT, IN use 6" cir. wheel with 200L adapter			
Memory	13 readings are stored in memory (last, max., min. and 10 e	v and retained for 5 minutes xtra measurements)		
isplay Update Time 1 second (typical)		second (typical)		
Display Update Time	1 second (typical)			
Detection	Laser diode			
System Control	Single-chip C-M	OS microprocessor		
Over Range Indicator	Flashing numerals			
Voltage Requirement		2 AA 1.5 V batteries		
Low Battery Indicator	Flashing "LO BAT" display	"B" display		
Auto Power Shut-Off		es		
Battery Life	40 hrs approx.	25 hrs approx.		
Operating Temperature Range				
Construction	Die-cast aluminum housing			
Weight	0.8 lb (365 g)			
Dimensions				
Standard Accessories	Reflective tape, cone adapter, carrying case, NIST certificate, 1 master wheel (6" cir.) and 200L adapter			

- .Stabilized measurement with palm size compact design . Convenient to carry by hand.
- To the center of the targeted rotational axis, the contact is directly hit with measurement touch method and the detached place measurement made possible by non-touch form, thus 2 methods are arranged.
- . With the wide rang of units viz. rpm, cm/s, m/min, m, km etc., conversion indication is possible.(PH-1B)

Model		CONTACT TYPE	LASER NON-CONTACT TYPE	CONTACT/LASER NON-CONTACT TYPE		
Model		PH-100A	PH-200L	PH-200LC		
Managing Panga		1.0 ~ 25.000 rpm	1.0 ~ 25.000 rpm 6.0 ~ 99.999 rpm			
Measuring Range		1.0 ~ 25,000 rpm	0.0 ≈ 99,999 rpm	Laser non-contact: 6.0 ~99,999 rpm		
		0.1 ~ 3809.8 m/min		1.0 ~ 3809.8 m/min		
Surface Sne	ed (by 6"wheel)	0.1 ~ 4,166.4 yards/min		1.0 ~ 4,166.4 yards/min		
ourrace ope	ica (by o wrice)	3 ~ 99,999 inches/min		36∼ 99,999 inches/min		
		0.2 ~ 12,499 feet/min		3.0 ~ 12,499 feet/min		
		0.01 ~ 99,999 m		0.2∼ 99,999 m		
Length (by 6	`wheel)	0.01 ~ 99,999 yards		0.2 ~ 99,999 yards		
Longer (b)	,	1 ~ 99,999 inches		_		
		0.1 ~ 99,999 feet		0.5 ~ 99,999 feet		
Total Numbe	er Of Revolutions	0.1~ 99,999	_	1 ~ 99,999		
	Revolutions	1.0~599.9 rpm: ± 1 rpm	6.0 ~ 599.	9 rpm: ± 1 rpm		
Measuring Accuracy	riovoluciono	$600.0 \sim 25{,}000$ rpm: $\pm 0.006\%$ and ± 0.5 digit	it 600.0 ~99,999 rpm: ± 0.006% and 0.5 digit			
	Surface, Speed, Length	±0.4% and ±1 digit —		±0.4% and ±1 digit		
Display Siz	e	5 digit 12 mm height LCD				
Memory Fu	nction	14 readings are stored in memory and retained for 5 minutes (Last, Max, Min, Average and 10 selectable measurements)				
Update time		1 second				
Detection		Optical coupleer, 20 pluses per rev. Laser beam				
Auto Power	Off Function	5 minutes				
Batteries		3 AA 1.5 Volts				
Low Battery	Indicator		Flashing "LO BAT" display			
Over Range I	ndicator	Flashing "OVR" display				
Operating Te	mperature	0~45°C				
Construction		ABS resin				
Outside Dimensions		122.5L × 64W × 31.5H mm	115.5L × 64W × 31.5H mm	115.5L × 64W × 31.5H mm Overall length with contact adapter : 149mm		
Weight		170g	160g	160g(contact adapter: 50 g)		
Accessories		Carrying case, Cone adapter, Funnel adapter, 6" wheel, Instruction manual, Certificate of calibration	Carrying case, 35 Reflective tapes, Instruction manual, Certificate of calibration	Carrying case, Cone adapter, Funnel adapter, 6" wheel, Contact adapter, 35 Reflective tapes, Instruction Manual, Certificate of calibration		



CONTACT TYPE

DT-105A DT-107A

- .There is no switching over of range from Lower 0.1rpm to 25000rpm and therefore it is OK.
- . The LCD (Crystallized) is large to display numeric value and unit even when dark, clearly confirming red color LED (Luminescence Diode), 2 types are serialized.
- . The outer case is lighter in weight and made up with the excellent endurance aluminum die casting.
- . With AA size Alkaline Dry Cell 2 Nos., Long duration and continuous measurement is possible, meaning that there is economical use of energy.

	DT-105A		DT-107A
Measuring Range	0.10 - 25,000 RPM with floating decimal		
Accuracy	±0.06 RPM: 0.10 - 999.9 RPM		
	±0.6 RPM: 1,000.0 - 9,999.9 RPM		
	±0.006 % of reading ±1 digit (or 2 RPf	M max.): 10,000 - 25,000 RPM	
Display	5 digit 0.47* (12 mm) high L	CD	5 digit 0.4" (10 mm) high LED
Measuring Units	Revolutions : RPH,RPM	Feet : FPH,FPM	Miles : MPH
	Yards: YPH,YPM	Inches : IPM	Meters : mPH,mPM
	Length: m, cm, inches, feet, yards	Total Revolutions : REV	
Memory	13 readings are stored in memory and re	tained for 5 minutes (last, max.	min. and 10 extra measurements)
Display Update Time	1 second (typical)		
Detection	Optical coupler, 60 pulses/rev.		
System Control	Single-chip C-MOS microprocessor		
Over Range Indicator	Flashing numerals		
Voltage Requirement	2 AA 1.5 V batteries		
Low Battery Indicator	Flashing "LO BAT" display "B" display		"B" display
Auto Power Shut-Off	Yes		
Battery Life	45-60 hrs approx.		25 hrs approx.
Operating Temperature Range	32° - 113° F (0 - 45° C)		
Decimal Point	Floating		
Construction	Die-cast aluminum housing		
Weight	0.9 lb (400 g)		
Dimensions	7.2" L x 2.4" W x 1.8" H (182.5 mm x 60 mm x 46 mm)		
Warranty	1 year		
Standard Accessories	2 cone adapters, 1 funnel adapter, 1 3-1/2" extension shaft.(NIST certificate.)carrying case, 1 master wheel (6" cir.)		
Optional Accessories	Wire/yarn fixture, cone adapter, funnel adapter, extention shaft, 6" measuring wheel, 12" measuring wheel		

^{*} When the speed of High Speed targated item, length measurement is to be done, it is recommended that 12Model Foil may be used.

DIGITAL SCALING METER



SERIES

DC Voltmeter Ammeter Receiving Instrument

DT-451A



DIGITAL SCALING METER

Corresponds to Torque, Speed, Pressure, Temperature etc. wide range measurement observations.

- . High luminance large type original LED employed
- . Frequently used setting items preferential group
- . With scaling, average operation function, PEAK Button measurement function
- . Front Panel is IP65 protected structure
- . Easy operation and multi-options

Model	DT-451A		
Indication	-99999~+99999		
Indication Parts	Red color or green color LED (Letter Height 15.2mm) Free selection choice of color is available.		
Pre-Scale Function	-99999~+99999 (Full Scale Indication)		
Resolution	1/100000		
Sampling	15 Rev./s.		
Protection Structure	Front operation parts IP65		
Outer Dimensions	W96 x H48 x D92mm (DIN)		

■Standard Functions :

- Hold (Input without isolation)
- Zero Set (Input without isolation) Peak & bottom Memory
- Off-set fixed
- 10o Digit 0 fixed
- **Amplitude Measurement**
- Average Operation Division Average, Movement Average

■ Handy Type
DT-325(Standard.Model)
DT-326(High Function Model)

SHIMPO

1

(2)

3

(4)

(5)

(12)



6)

7

(8)

(10)

(11)

13

For Checking Scratch, Crack, Burr, Oscillation, Gear Meshing.

Handy Type LED STROBOSCOPE

1) LCD Display

Setting value, condition etc. is indicated. (with back light)

2SET Key

Used for unit switching, parameter setting items selection, setting value recording

3x 2 Kev

At the time of inner parts oscillation mode, pressing every time, the luminous frequency could be set at double the present luminous frequency.

4) 1/2 Key

At the time of inner parts oscillation mode, pressing every time, the luminous frequency could be half of the present luminous frequency.

⑤ FLASH Key (DT-325)

At the time of inner parts oscillation mode, pressing every time, the luminous is turned ON/OFF. RATIO Key (DT-326)

Luminous pulse width setting is possible.
(Stop motion distinct adjustment could be done.)

6 MODE Key

Inner parts oscillation mode/ parameter setting mode/ outer part synchronization mode could be switched over.

(outer parts synchronization mode is only for DT-326.

⑦POWER Key

Power supply is turned ON/OFF.

8 + Key

During the luminance of inner parts oscillation, pressing every time, the present luminous phase gets advanced by 3 degrees of standard phase. While setting the parameter mode, it is used for change in the set value.

(DT-326: PHASE +Key)

9- Key

During the luminance of inner parts oscillation, pressing every time, the present luminous phase gets reduced by 3 degrees of standard phase. While setting the parameter mode, it is used for change in the set value.

(DT-326 : PHASE -Key)

10 TURBO Key (DT-325)

During short period (1 min) temporarily the luminous moves UP. ECO-Key (DT-326)

LED luminous brightness is brought to original, thus, battery life is extended.

(II) DIAL

It sets luminous frequency.

② DC POWER SUPPLY CONNECTOR (DT-326 Only)

(B) INPUT/OUTPUT SIGNAL CONNECTOR (DT-326 Only)

■Multi-Lamp Form Deferred Type DT-329

SERIES



CE

For checking scratches, cracks, pin-hole etc. of printing.





- ①Power Supply Connector (AC Consent)
- 2 Outer Parts, Input/Output Connector.
- 3 Power Supply Switch
- **4POWER KEY**

Supply is made ON/OFF.

SET Key

Used for unit switching, parameter setting items selection, setting value recording

MODE Key

Used for switching over of inner parts oscillation mode/ outer parts trigger mode/ parameter setting mode

● RATIO Key (DT-326)

Luminous pulse width setting is possible. (Stop motion distinct adjustment could be done).

● x 2 Ke

At the time of inner parts oscillation mode, pressing this key every time, the luminous frequency could be set at double the present luminous frequency.

● 1/2 Key

At the time of inner parts oscillation mode, pressing this key every time, the luminous frequency could be half of the present luminous frequency.

● FLASH Key (DT-325)

At the time of inner parts oscillation mode, outer parts trigger, the luminous is turned ON/OFF.

• + Key

During the luminance of inner parts oscillation, pressing every time, the present luminous phase is advanced by 6 degrees of standard phase. While setting the parameter mode, it is used for change in the set value.

• - Key

During the luminance of inner parts oscillation, pressing every time, the present luminous phase is reduced by 6 degrees of standard phase. While setting the parameter mode, it is used for change in the set value.

■Handy Type LED STROBOSCOPE

Operation Part

				T	
		Model	Standard Model DT-325	High Function Model DT-326	
		Unit	fpm, Hz		
			60.0~3000.0fpm:0.1fpm, 3000.2~6000.0fpm:0.2fpm, 6000.5~12000.0fpm:0.5fpm		
	Setting Resolution	n (Inner Part Oscillation)	60.0~30000fpm:1fpm, 30002~60000fpm:2fpm, 60005~100000fpm:5fpm, 110000~120000fpm:10fpm		
	Luminescence Frequency Setting		Luminescence frequency could be	pe revised to free value through dial	
	Inner Part		With key operation, luminescence frequency could be revised to 2 times or 1/2 time.		
	Oscillation		Pressing the key every time, it changes to 2 times, 4 times, 1/2times, 1/4times		
			Phase Revised Function	The present luminescence phase could be shifted at +3 degrees or -3 degrees pressing the key every time.	
		Unit Switch Over Function	Setting is possible at "fpm" or "Hz"		
Mode		Lumi.Freq.(input possible Freq.)		1~166Hz, 60~10000fpm	
	Outer Parts Trigger	Input possible Pulse Width	-	More than 50s	
		Unit Switch Over Function		"fpm" or "Hz" setting possible.	
		Measurement Range	Setting is possible at 1~2000Hz,(60~12000	Ofpm)range or 1~200Hz (60~12000fpm) range.	
	Parameter	Trigger edge	-	Possible to select for either upper or lower	
	Setting	Delay Time (Angle)	-	Delay Period: 0~999ms, Delay Angle:0~359°	
I			Setting is pos	sible for ON/OFF	

●Display Part

Display	(LCD With Back light)		6 Digit Numeric Value Display (Main Display), 6 Digit Numeric Value Display (Sub Numeric Value	
Parts			Battery Remaining Qty. Lower Display, Setting Items Display Parts, Unit Display Parts.	
Luminesc	Luminescence Body		Ultra High Luminescence White color LED	
ence	Life (Lumi. Rev. Nos.)		1500 Hrs.(at 6000fpm luminescence, around more than 5 x 10 ⁸ times)	
	Battery		Alkaline AA Dry Cell (1.5V x 4 Nos.)	
Power	AC Ac	dapter	-	Exists. 5V 2.0A
Supply	Continuous Lumini. Period	About 80 Minutes	At normal mode	at Eco mode
	Weight		About 500g (Excluding Battery)	

The Value is subject to Using Brand New Alkaly Battery, Luminescence Period (ratio) set at 2.5

■ Multi-Lamp Form Deferred Type LED Strawboscope

Operation Part

Model			Standard Model DT-329
	U	nit	fpm, Hz (Switching Over possible by Parameter settings)
	Luminescen	ce Frequency	1~2000Hz 60~120000fpm
Setting Accuracy (Inner Parts Luminescence)			0.02%±1Unit (at 25°C)
			1~200Hz 0.01Hz
	Catting Decel ting (lan	as Darta I (minasana)	1~2000Hz 0.01Hz
	Setting Resolution (Inn	er Parts Luminescence)	60.0~3000.0fpm:0.1fpm, 3000.2~6000.0fpm:0.2fpm, 6000.5~12000.0fpm:0.5fpm
			60.0~30000fpm:1fpm, 30002~60000fpm:2fpm, 60005~100000fpm:5fpm, 110000~120000fpm:10fpm
	Inner Part Oscillation	Luminescence Frequency Setting	Luminescence frequency could be revised to free value through Dial
Mode		Revised Function	Lumin. Frequency: 1~2000Hz 60~120000fpm Luminescence frequency could be revised to free value
			With Key Operation, Luminescence Frequency could be revised to 2 times or 1/2 time.
			Pressing the Key every time, it changes to 2times, 4times, 1/2times, 1/4times
		Phase Revised Function	The present Luminescence Phase could be shifted at +6 degrees or -6 degrees pressing the Key every time.
		Unit Switch Over Function	Setting is possible at "fpm" or "Hz"
wode	Outer Parts Synchronization		Lumi.Freq.(input possible Freq.) 1~166Hz, 60~10000fpm Input possible Pulse Width: More than 50s
	Parameter Setting	Measurement Range	Setting is possible at 1~2000Hz,(60~120000fpm)range or 1~200Hz (60~12000fpm) range.
		Luminescence Period	With the scope of $0.1^{\circ} \sim 1.0^{\circ}$ ($/360^{\circ}$) at every 0.1° setting is possible
		Trigauge	Sele. possible for either Raise range or Lower range
		Delay Time (Angle)	Delay Period : 0~999ms, Delay Angle:0~359°
		Back light	Setting is possible for ON/OFF

●Display Part

Display Parts	LCD	6 Digit Numeric Value Display (Main Display), 6 Digit Numeric Value Display (Sub Numeric Value Display),
Display 1 arts		Setting Items Display Parts, Unit Display Parts.
	Back light	Yellow and green color LED
Lumini.Part	Lumini.	Ultra high luminescence white color LED
Power Suppl	y	1 Ø AC 85 ~ 264V
Weight		Around 4.5kg.



SERIES

- ■Common Use Model DT-311N
- ■Charging Method, Battery Built-In Model
- DT-315N
- ■Common Use Model for Printing Machine DT-311P
- Charging Model for Printing Machine DT-315p



DIGITAL STROBOSCOPE

High Speed Movement Body, Action of Revolving Body Stop Motion analysis.

- . Wide Scope Measurement of $40.0 \sim 35,000 \text{ rpm.}(DT-311N/315N)$
- . With the synchronization condition, image movement possible.
- . Connector for outer part signal, Standard Equipment.

Model	DT-311N	DT-315N			
	40.0~35000				
Lumin. Rev. No.(rpm)	In case of Outer Parts Synchronization 0~35000				
Setting Equipment	Multi Rev. Encoder, Tact Switch				
Flash Supply	Xenon Lamp				
Lamp Input	10W				
		Charging Method : Exclusive Nickel Hydro. Battery. Continuous 1 Hr. Luminescence			
Power Supply	AC100~120V	AC Adapter : 2 Hrs. fast charging			
		AC100V±10%			
Weight	1.2kg	2.1kg			
Accessories	Pistol Grip	Exclusive Adapter			



NIDEO CLUMDO	CORRORATION
MIDEC-SHIMPO	CORPORATION

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