

# Immuno-chromato-Reader C10066-10



## OVERVIEW

The C10066-10 Immuno-chromato-Reader makes rapid, high sensitivity, quantitative measurements of color intensities for red/blue based immunochromatographic reagents. Since measurement data is saved as a CSV file, it can be analyzed on commercially available spreadsheet software, and calibration curve and time-course graphs then easily drawn. The C10066-10 Immuno-chromato-Reader is an optimal tool for R&D work as well as quality control of immunochromatography reagent kits.

## APPLICATIONS

- Immunochromatography reagent
  - Development
  - Quality control

# Immuno-chromato Reader

## FEATURES



\* PC must be prepared by the user.

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### ① High-sensitivity measurement with high repeatability

The C10066-10 Immuno-chromato-Reader acquires highly reliable data with high measurement reproducibility. The C10066-10 in this way provides powerful support for developing quantitative reagent kit. Measurements can be made even in low color regions where visual checks are extremely difficult, so the C10066-10 will prove a powerful tool for developing high-sensitivity reagent kit.

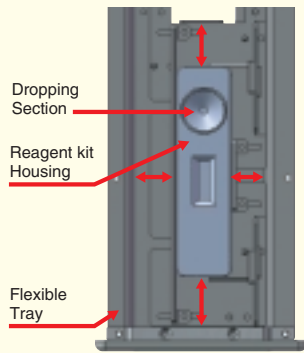
### ② Red-based color line and blue-based color line can be measured with a single unit.

Supports a wide range of reagents such as for reagent development.

\* The two colors cannot be measured simultaneously.

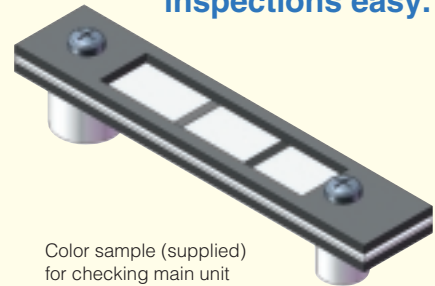
### ③ Compatible with different reagent housing configurations

The supplied flexible tray fits various reagent kit housings just by adjusting its holders. This flexible tray can also be used with dip type reagent kit. (sold separately)



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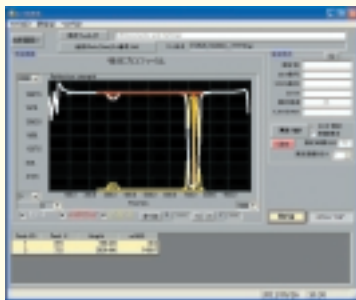
### ④ Color sample provided to check the C10066-10 main unit makes daily and periodic inspections easy.



Color sample (supplied) for checking main unit

### ⑤ Automatic color line position detection and color intensity calculation (mABS)

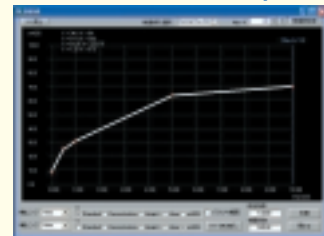
Color lines are automatically detected to calculate the color intensity (absorbance). Highly reliable data is acquired by a fully automatic procedure from the start of measurement to calculation of absorbance. Color intensity profile data can also be stored as a record of the coloration state.



### ⑥ Calibration curve function can be calculated

Calculated calibration curve function converts absorbance data to concentrations on a graph.

#### ● Calibration Curve Graph

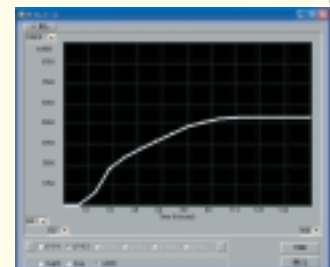


### ⑦ Lot measurement and time-course measurement modes selectable

Lot measurement mode saves single lot data lists as CSV files that can then be processed with commercially available spreadsheet software. Time-course measurement mode monitors absorbance fluctuations that show how the color changes over time after dropping a sample onto a reagent kit. This allows finding the difference in reaction speed between material lots.

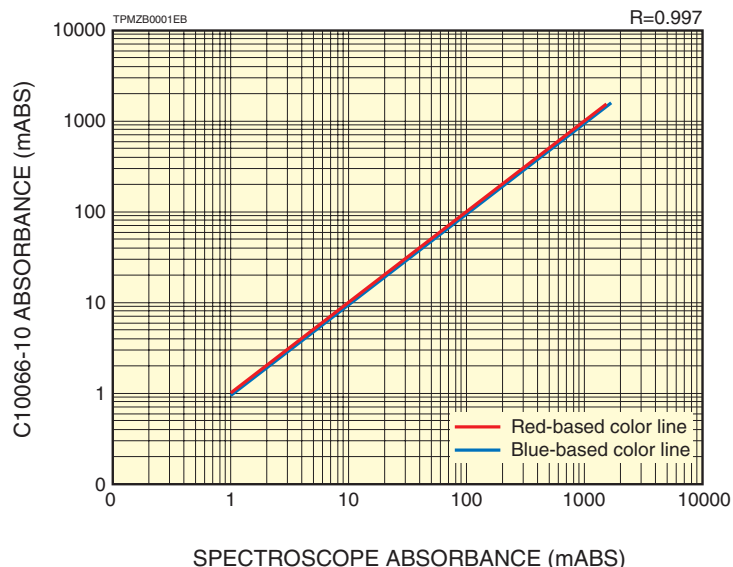
#### ● Lot Measurement Data List

#### ● Time-course Measurement Graph

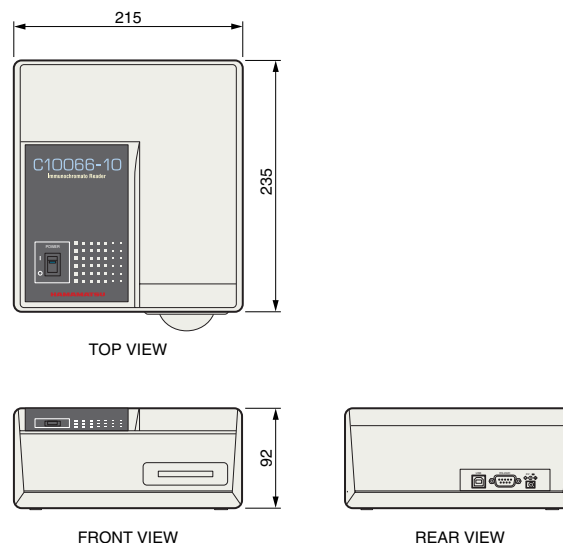


## CHARACTERISTICS

### ●Sensitivity Characteristics (C10066-10 vs. spectroscope)



## DIMENSIONAL OUTLINE (Unit: mm)



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## SPECIFICATIONS

### MAIN UNIT

Parameter	Description / Value	Unit
Input voltage (AC)	100 to 240	V
Power consumption	Max. 3	VA
Interface	USB 2.0 (cable supplied) or RS-232C (dedicated cable optional)	—
Light source	Green LED / Red LED	—
Light detection	Silicon photodiode	—
Measurement object	Red-based color line / Blue-based color line	—
Dimensions (W × H × D)	215 × 92 × 235 (excluding projecting parts)	mm
Weight	1.6	kg

### SOFTWARE (for operation on PC)

Parameter	Description	Unit
Compatible OS	Windows® 7 (32 bit / 64 bit) / 8.1 (32 bit / 64 bit) / 10 (32 bit / 64 bit)	—
Program	Measurement	Lot measurement, time-course measurement (30 second interval / 60 second interval)
	Analysis	Calibration curve function, concentration conversion

### MAIN UNIT

Parameter	Value	Unit
Number of measurement lines	Max. 6	Lines
Measurement line interval (center to center)	Min. 3	mm
Measurement line width	0.8 to 1.2	mm
Measurable range	Max. 3 × 20	mm
Sensitivity (absorbance)	Min. 5	mABS
	Max. 800	mABS
Accuracy (measurement reproducibility, difference between units)	Max. 3 % CV (at +25 °C, 20 mABS)	—
Temperature characteristics (absorbance fluctuations with temperature)	Max. 3 % CV (at 20 mABS)	—
Ambient operating temperature	+15 to +30	°C
Ambient operating humidity	Below 70	%
Storage temperature	-20 to +45	°C
Storage humidity	Below 70	%

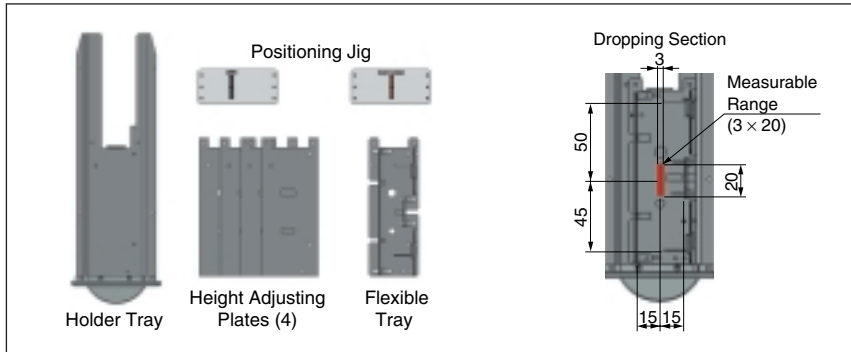
### COMPATIBLE REAGENT SIZE

Parameter	Description / Value	Unit
Reagent kit housing (W × H × D)	35 × 8 × 95 (See "Accessories" on next page for details.)	mm
Dip type reagent kit strip (W × D)	10 × 90 (See "Sold separately" on next page for details.)	mm

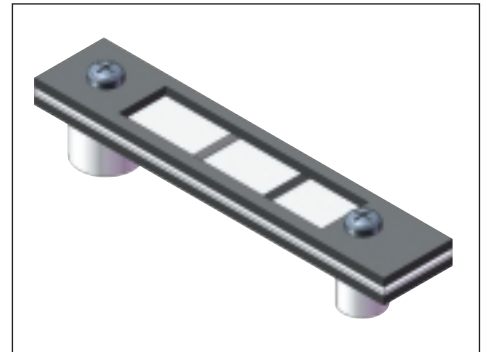
# Immunochemat Reader

## ACCESSORIES

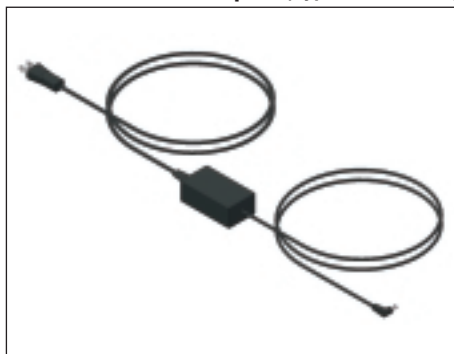
### ●Flexible tray (Type No.: A10791)



### ●Color sample for checking main unit (Type No.: A10792)



### ●Dedicated AC adapter (Type No.: A10795)



\* Cable length: AC side 1.8 m  
DC side 1.5 m

### ●USB cable (Type No.: A10796)



\* Cable length: 1.5 m

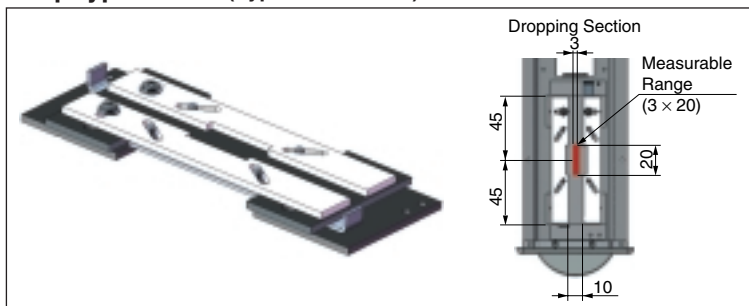
### ●CD-ROM

(includes software and instruction manual)

### ●Setup guide

## SOLD SEPARATELY

### ●Dip type holder (Type No.: A10793)



### ●Dedicated RS-232C cable (Type No.: A10794)



\* Cable length: 1.5 m;  
General-purpose RS-232C cables cannot be used.

### ●Custom holders

Custom holders that fit customers' reagent kit housings may be available.

\* This unit is not a medical device. Do not use it for medical diagnosis and treatment.

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