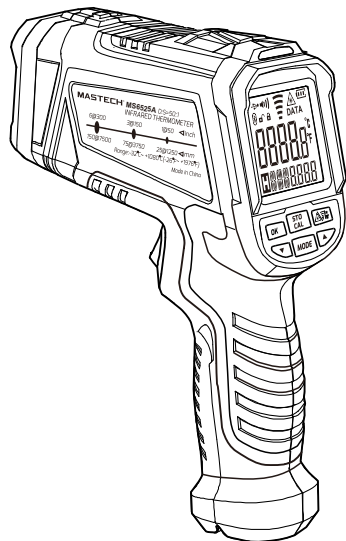


MASTECH®

MS6525A/B

Infrared Thermometer
User Manual



Specifications are subject to change without notification.

Dear customer,
Thank you for choosing MASTECH.
If there are any technical questions, please contact:
www.mastech-group.com.

Introduction

Infrared Thermometers (the Product) can determine the surface temperature by measuring the amount of infrared energy radiated by the target's surface.

Safety Information

To prevent eye damage and personal injury, please read all safety information carefully before you use the product.

Warning

- Do not look into the laser, do not point laser directly at persons or animals or indirectly off reflective surfaces;
- Do not look directly into the laser with optical tools (for example, binoculars, telescopes, microscopes). Optical tools can focus the laser and be dangerous to the eye;
- Replace the batteries when the " " symbol shows to prevent incorrect measurements;
- To prevent battery leakage, please remove the battery if the product is not used for an extended period of time, or if stored in temperatures above 50°C;
- Be sure the battery polarity is correct to prevent battery leakage;

- To prevent the risk of electric shock or product damage that may result from battery leakage, please repair the product before use when the battery is leaking;
- Do not use this product near explosive gases, vapors or in humid environments;
- See emissivity information for actual temperatures. reflective objects result in lower than actual temperature measurements. These objects pose a burn hazard;
- To ensure measurement accuracy, please place the product in the current environment for more than 30 minutes before use;
- Only authorized technicians are allowed to repair this product.

Standards and Agency Approval

CE — EN 61326-1

FCC—FCC PART 15 Subpart B

Laser safety—EN 60825-1

Specifications

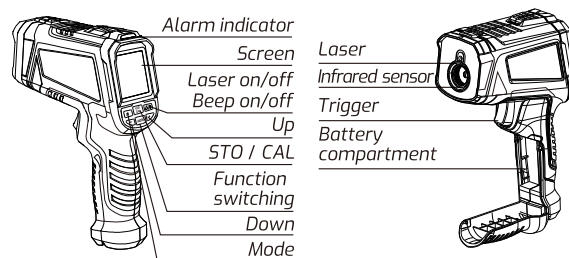
Range	TA603A	-32 ~ 1080°C (-26°F ~ 1976°F)
	TA603B	-32 ~ 1380°C (-26°F ~ 2516°F)
Accuracy		-32 ~ 100°C (±2°C) -26 ~ 212°F (±4°F)
		100 ~ 800°C (±2%) 212 ~ 1472°F (±2%)
		800°C above (±3%) 1472°F above (±3%)
Response time		<500ms (95% of reading)
Spectral response		8μm ~ 14μm
Optical resolution		50:1 (calculated at 90% energy)
Emissivity		0.1 to 1.00 adjustable in steps of 0.01 (default 0.95)
Display resolution		-32 ~ 1000°C (0.1°C) / 1000 above 1°C
Repeatability		±1% or ±1°C (2°F)
Laser		Wavelength 620~690nm, output less than 1mW, laser grade: class 2
Display		5 digits, max 88888
Auto power off		1min
Product size		213 x 140 x 60mm
Screen size		33 x 40mm
Weight		Approx. 350g (battery not included)
Power		9V 6F22
Operating temperature		0°C ~ 50°C (32°F ~ 122°F)
Storage temperature		-20°C ~ 60°C (-4°F ~ 140°F)
Operating humidity		≤95% relative humidity (non-condensing)
Drop test		1m

Note:

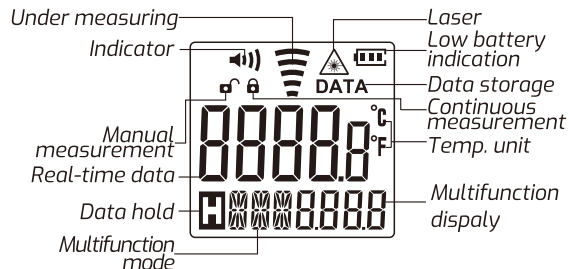
In the presence of strong electromagnetic fields, the use of this product will result in a measurement error of ±10°C or 20%; when this change is observed, please leave the area and use it after recovery.

Product

Overview



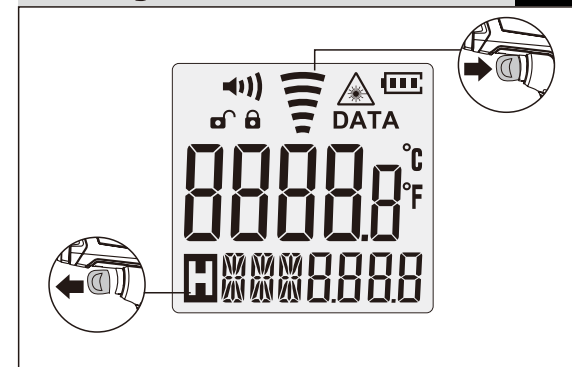
Display



Operation

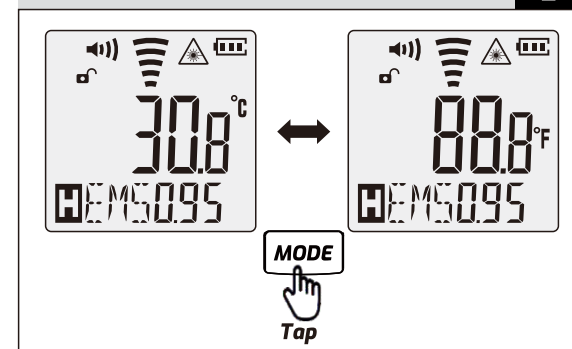
Measuring & Data Hold

1



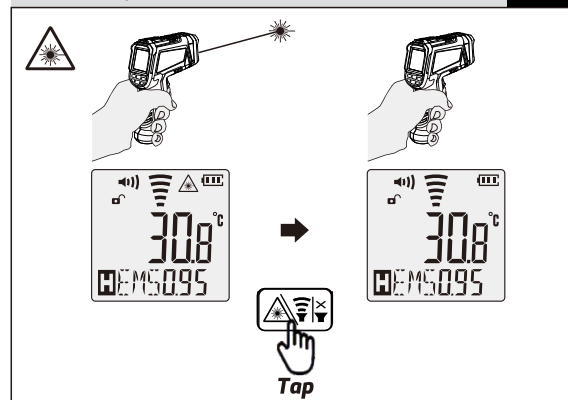
°C & °F

2



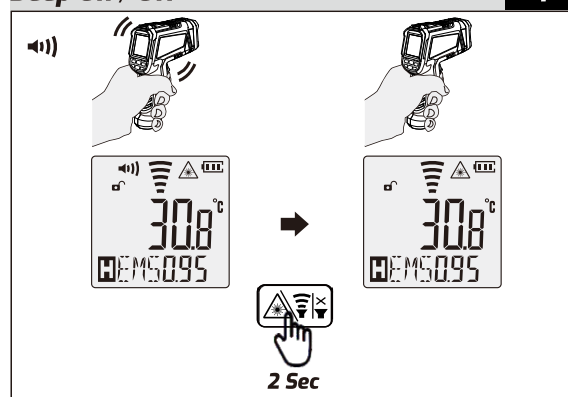
Laser On / Off

3



Beep On / Off

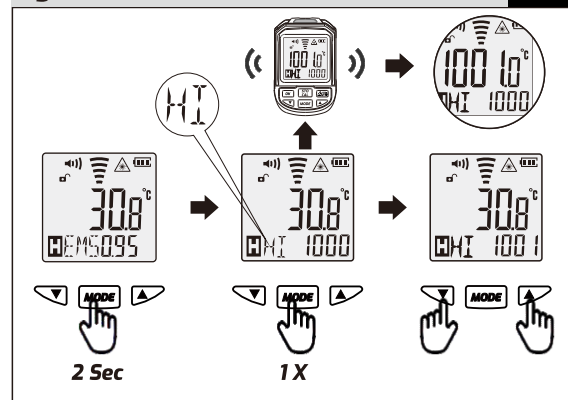
4



-6-

High Alarm Value

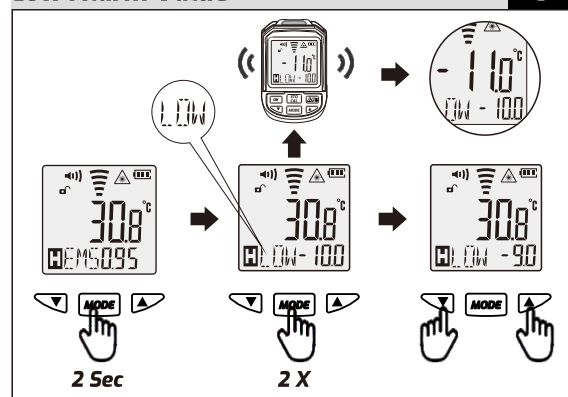
5



-7-

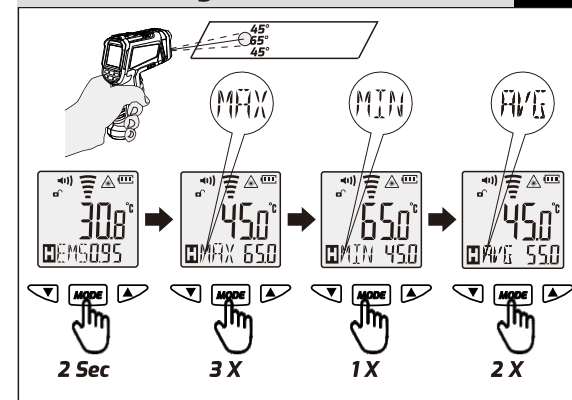
Low Alarm Value

6



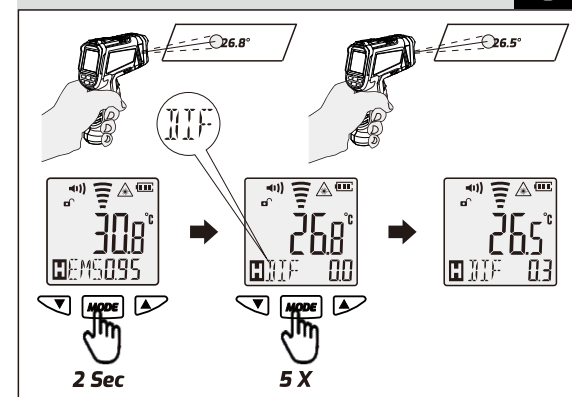
Max / Min / Avg

7



Dif

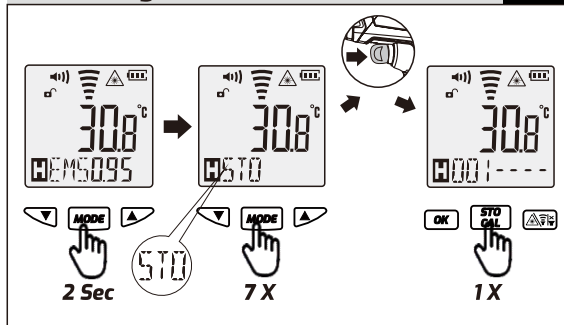
8



-8-

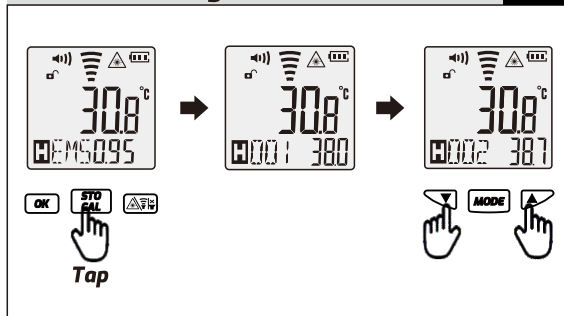
Data Storage

9



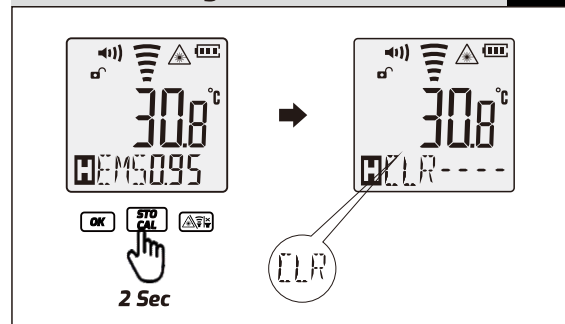
Check The Storage

10



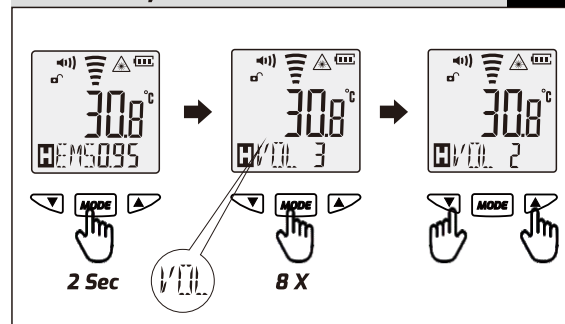
Clear The Storage

11



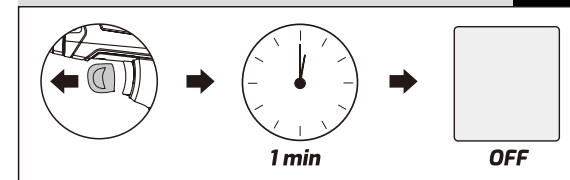
Volume Adjustment

12



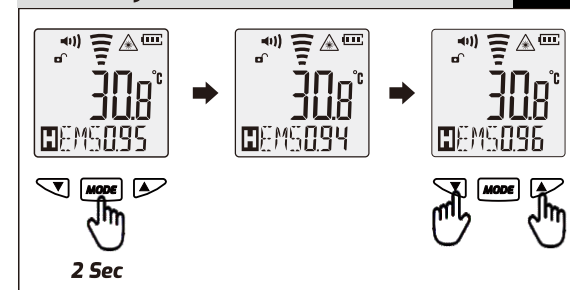
Auto Power Off

11



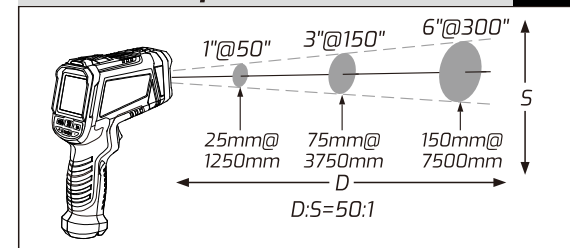
Emissivity

12



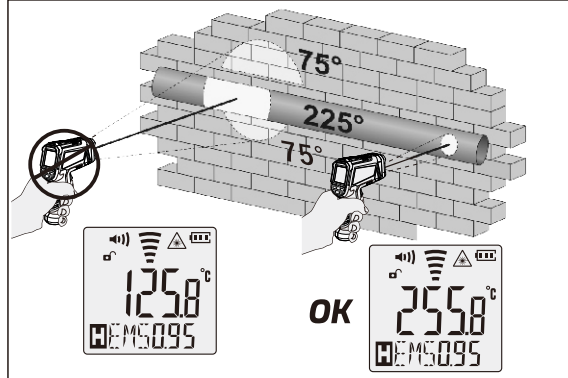
Distance and Spot Size

13



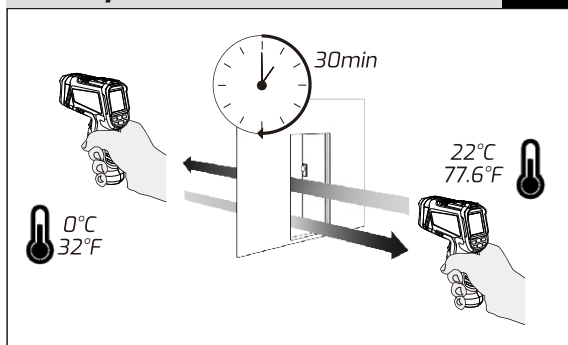
Field of View

14



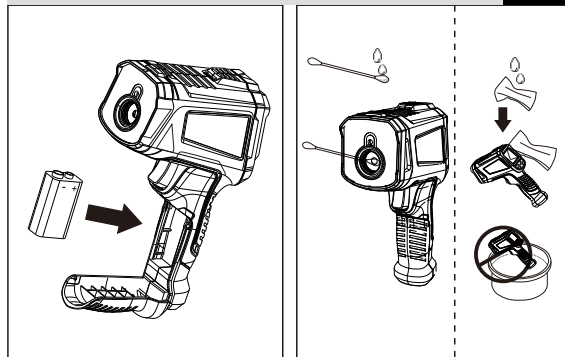
Test Requirement

15



Battery Replacement & Clean

16



Nominal Surface Emissivity

Material	D:S	Material	D:S
Default	0.95	Glass (plate)	0.85
Aluminum	0.30	Iron*	0.70
Asbestos	0.95	Lead*	0.50
Asphalt	0.95	Oil	0.94
Brass *	0.50	Paint	0.93
Ceramic	0.95	Plastic* **	0.95
Concrete	0.95	Rubber	0.95
Copper *	0.60	Sand	0.90
Food (frozen)	0.90	Steel*	0.80
Food (hot)	0.93	Water	0.93
Wood* ** *	0.94		

* Oxidized / ** Opaque, above 20mils / *** Natural

Warranty:

Each product is warranted in material and workmanship under normal use. The warranty period is one year and begins on the date of purchase.

To obtain warranty service, please contact the dealer or manufacturer to obtain return authorization information, then send the product to the service center.



APAC

MGL APPA Corporation
cs.apac@mgl-intl.com

EMEA

MGL EUMAN S.L.
cs.emea@mgl-intl.com

MEXICO & LATAM

MGL LATAM S.A DE CV
cs.latam@mgl-intl.com

UNITED KINGDOM

POWER PROBE GROUP LIMITED
cs.uk@mgl-intl.com

中国

广东迈世测量有限公司
客服信箱: cs.cn@mgl-intl.com

亞太

邁世國際瑞星股份有限公司
客服信箱: cs.apac@mgl-intl.com

USA

MGL AMERICA, INC.
cs.na@mgl-intl.com