



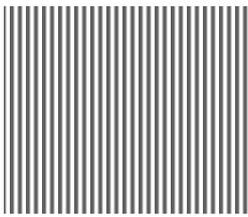
---

I R - AH Series

Digital

Model : IR - AHS, IR - AHU

IR - AHT



# INSTRUCTIONS

가

.

CHINO



/

「 I R - A H Series Digital 」

Trouble



가 , 가 가 ,

- 
- 1 . , .
  - 2 . , 가 가 가
  - 3 . .

- 1 . , 가
- (a) , . . . . .
  - (b) . . . . .
  - (c) , Option . . . . .
  - (d) , , . . . . .
  - (e) , ( . . . ) , , 가 ( . . . ) , . . . . .

- 1) 가 . . . . .
- 2) 7 . . . . .

가



# 1.

0 ~ 50

(Cover Glass 「9.3. Cover Glass」)

가  
(IR-AHT )  
가

가 가 1

(IR-AHT )

# 2.

( )

2

가 , 가 가

# 3.

1		가
2		( 가 가 ) , 가
3		가 가
4		,
5		,



	( 가 )	
	「5.4. 가」	
	가 가 가	
	.가 .	
	AC (IR-VHR) AC 100V , AC AC	
	가 , 가	

	( 가 )	
	( + - ) 가 .	
	가	
	∴	
	「 」 가	
	, .	

/

1 .	.....	18 .	.....	17
1.1	.....	8.1	.....	17
1.2	.....	8.2	.....	17
2 .	.....	8.3	.....	17
2.1	.....	9 .	.....	18
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6.6	.....	( = 0.65μm )	.....	25
7 .	.....	( = 0.9μm )	.....	26
7.1	.....	( = 8-14μm )	.....	26
7.1	.....			

( )



가



1.

1.1

IR-AH CHINO 가 optoelectronics

(-)50

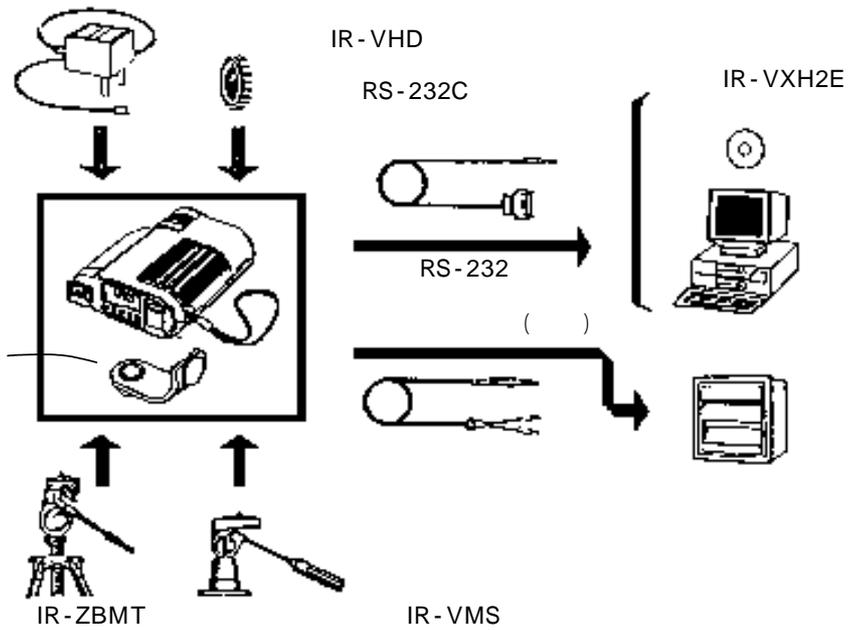
3000

1000

(IR-VXH2 )

1.2

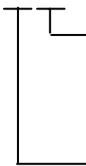
AC



2.

2.1

IR - AH



( )  
0 :  
2 : 0 - 1V DC

T :  
S :  
U :

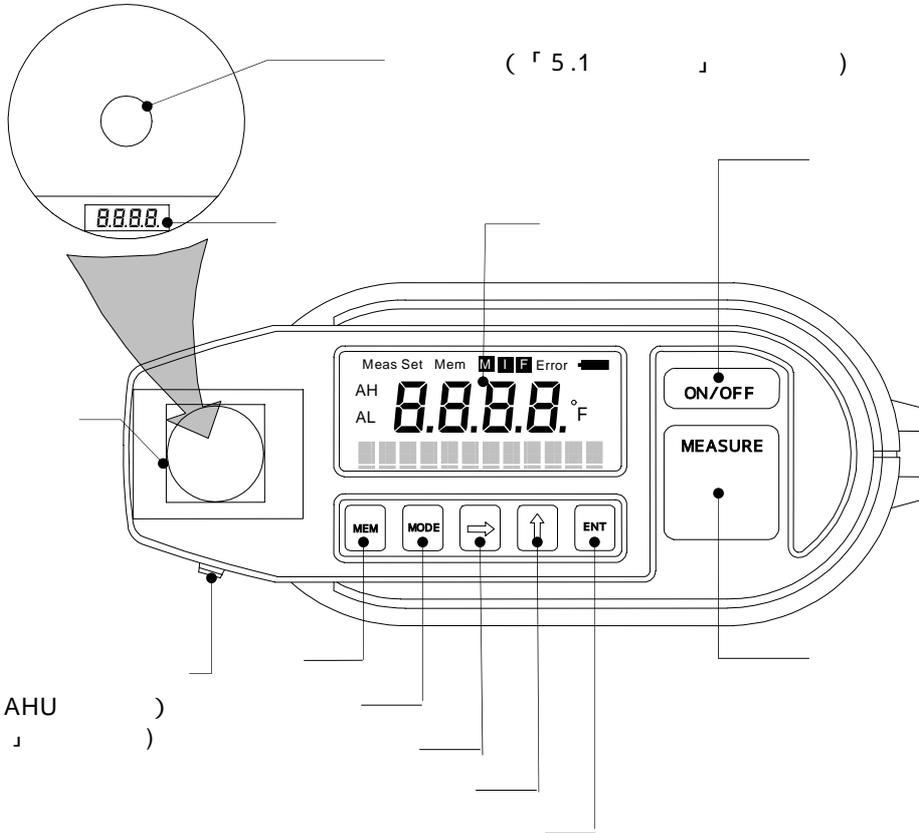
2.2

3A	4	
	1	
	1	
	1	
	1	

3.

( )

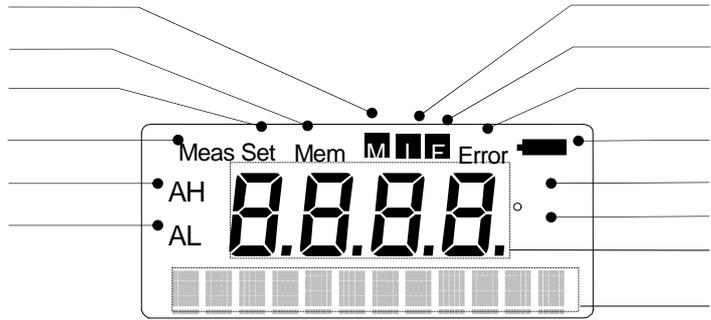
( 「 5.1 」 )



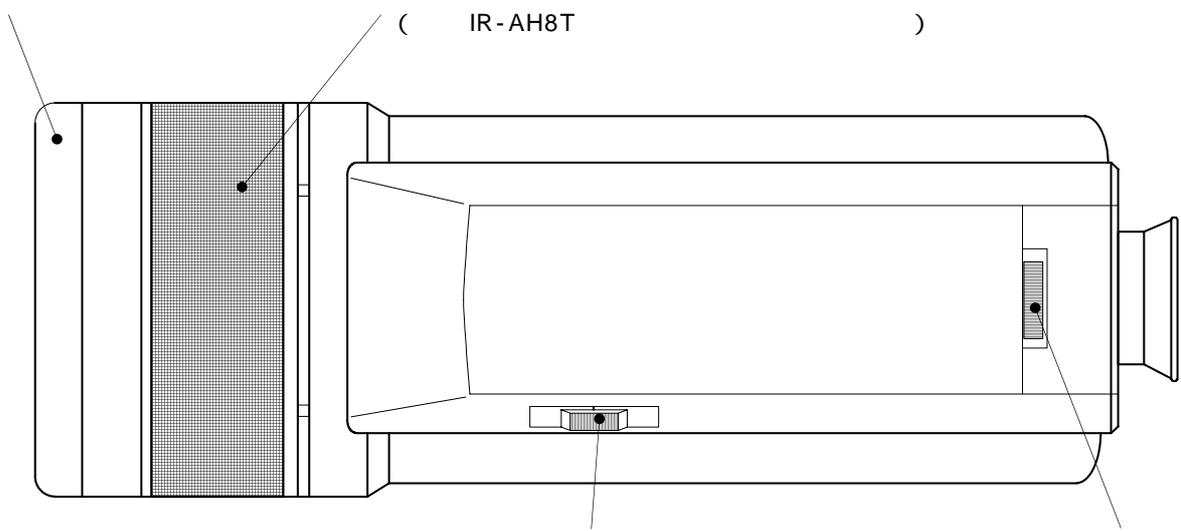
( IR-AHS,IR-AHU )  
 ( 「 5.4 」 )

	ON/OFF	ON/OFF
	/	MEASURE
		MEM
		MODE
		□
		□
		ENT

3.

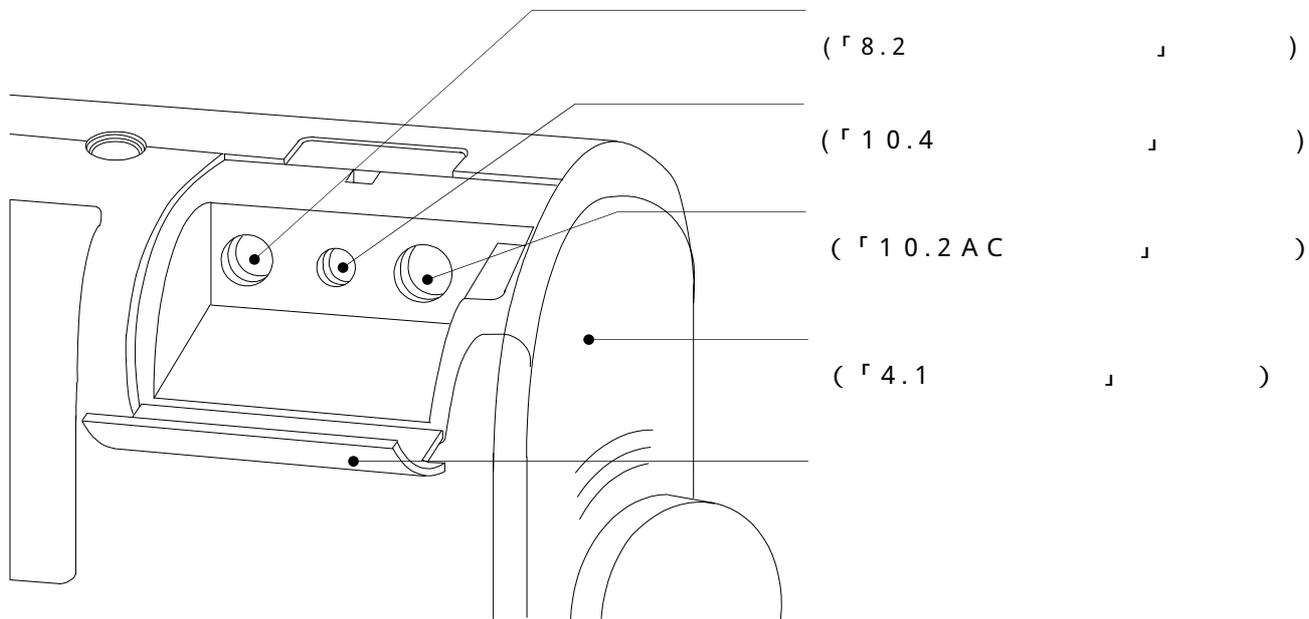
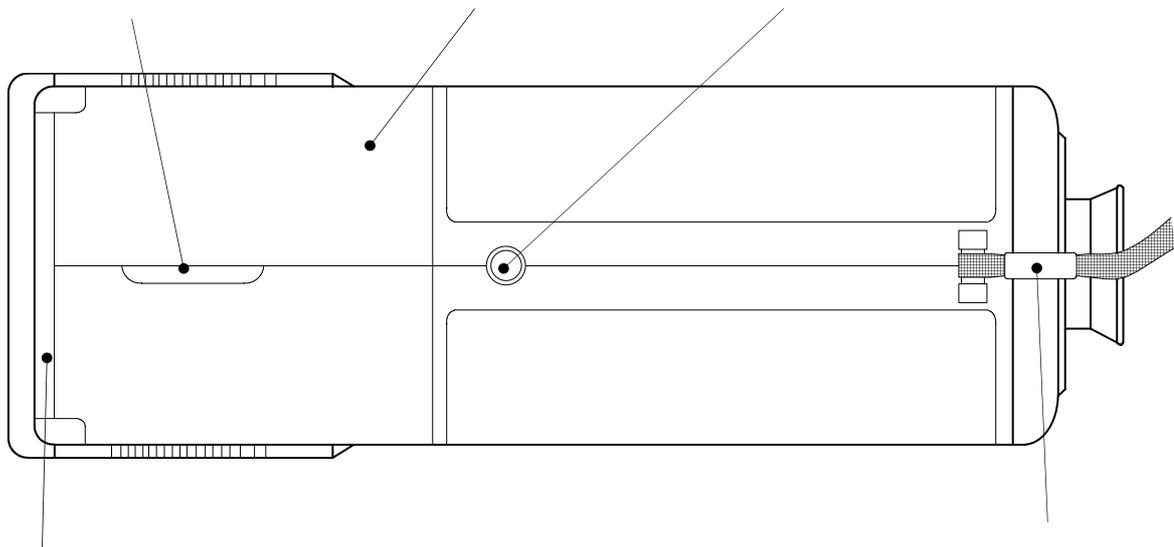


AL	.	"AL"
AH	.	"AH"
Meas	.	"Meas"
Set	, .	"Set"
Mem	/ .	"Mem"
<b>M</b>	.	<b>M</b>
<b>I</b>	.	<b>I</b>
<b>F</b>	가 가	<b>F</b>
Error	.	"Error"
<b>■</b>	.	
	가 .	" "
	가 .	" "



( IR-AH S )

3.



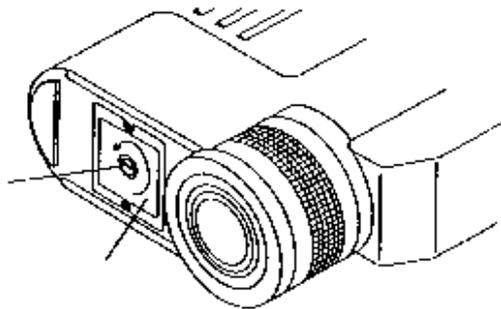
4.

4.1

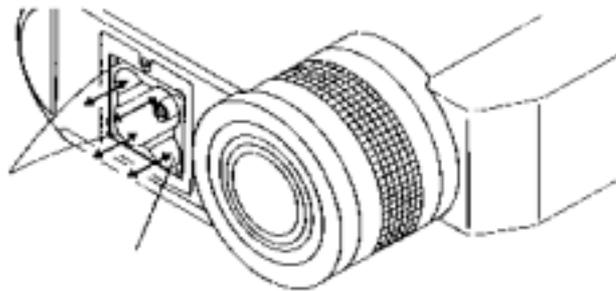
가



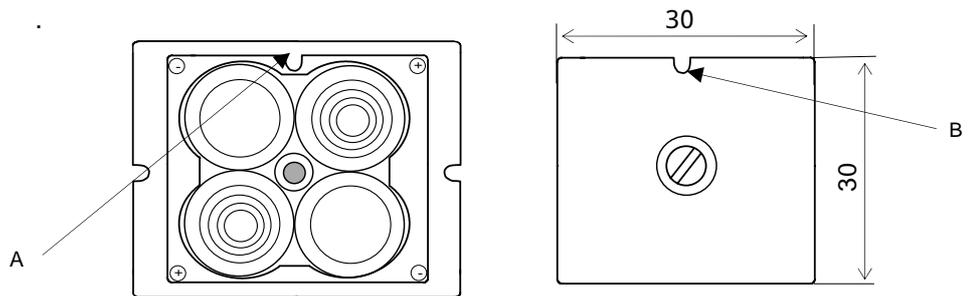
(-)



가



가  
A                      B



: mm

4.

4.2

4.2.1

ON/OFF

"System Check"

S y s t e m C h e c k

가

Real E1.00

4.2.2

ON/OFF



ON/OFF

shutdown

ON/OFF

4.3

• MODE

ON/OFF

•

U n i t

•

• ENT

• ON/OFF

°F



5.

5.1

● ON/OFF

●  
●

가

●

( )

● MEASURE

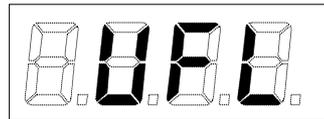
” Meas” 가



가

” OFL”

,” UFL”



● MEASURE

가

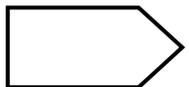
5.2

MEASURE

ON/OFF

MEASURE

MEASURE



가

AC

(

IR-VHR)

5.3 power-off

10

가

10

, ENT

. 10

, 가 5

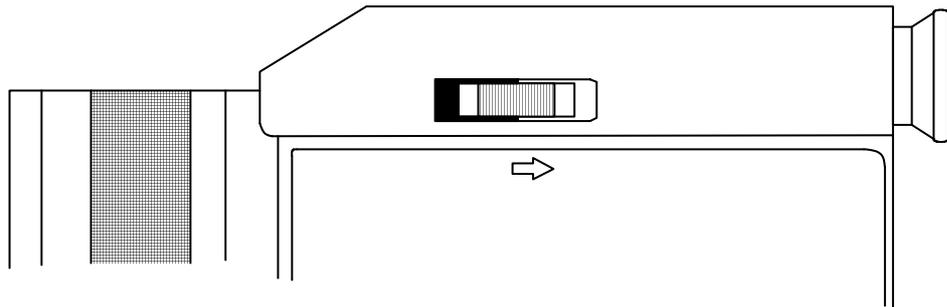
5.

5.4



- 1500

. ( IR-AHS, IR-AHU )



가 , , , 가

가 , , 가

IR-AHT 가 가

가 가 가

1 .

5.

5.5

가 「11」

” Set” 가

**MODE**

5.5.1

- **MODE**

E m i . . . . . 1 . 0 0

- 
- **ENT** , 0.10 1.99(0.01 )

1.00

「13.」

5.5.2

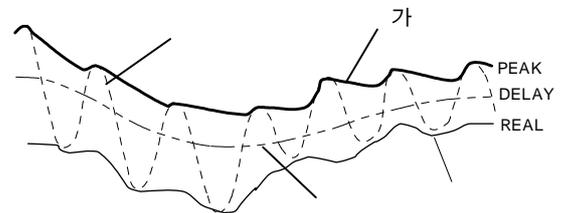
- **MODE**

M o d . . . . . R e a l

- 

Real	
Peak	가 가
Delay	
Valley	가 가

Peak , Delay, Valley , 「05.5.3」



**ENT**

Real

5.

5. 5. 3

가 가

- **MODE**

T . C . 9 9 9 s

- 
- " Hold" ,  , " Hold" 가

T . C . H o l d ?

- **ENT**

0.0 99.9 (0.1 ) " Hold"

	, 0.0
	" Hold" Peak Valley Delay 99.9

5. 5. 4

가 " AH" ( ) " AL" ( <sup>2</sup> ) 가 가

" OFF"

- **MODE**

A l m H O F F

A l m L O F F

- 
- OFF ,  , " OFF" 가
- **ENT**

IR-AHT	-50 1000 (1 ), OFF	-50 1000 (1 ), OFF
IR-AHS	600 3000 (1 ), OFF	600 3000 (1 ), OFF
IR-AHU	900 3000 (1 ), OFF	900 3000 (1 ), OFF

 " OFF"

6.

MEM 1000  
2 가

6.1

MODE 2

M M O D O f f

- [ ] " Man"
- ENT , M 가

Mem M

- MODE 2
- MEASURE
- MEM 가  
"Data Stored" 가

D a t a S t o r e d

MEM 가 .(  
" Off" , MEM .)

▶ " Off"

6.

6.2

- **MODE** 2

M M O D O f f

- " Int "
- ENT  가

Mem **I**

- **MODE** 1

I n t 0 : 0 1 : 0 0

- 
- ENT
- **MODE** 2
- **MEM** 가  가
- **M**

**M I**

- **MEASURE** "Data Stored" 가

D a t a S t o r e d

- **MEM**
- 1 2 (0:00:01 2:00:00)

 1 (0:01:00)



6.

6. 6

- 가 가
- **MODE** 2
- **MODE**

A D D E L Y E S N O

- " YES"
- **ENT** "All Erased" 가

A l l E r a s e d



가 "No Data" **MODE** 2 가

7.

2

7.1

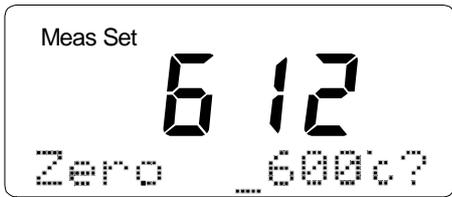
- **MODE** **ON/OFF**
- **MODE** 가 , / " CMP"

C M P G O N O

- "GO"

 Span **MODE**

- **ENT** 가 , , 가



- 

  ,    
UP

- **ENT** , " Zero" 가

Z e r o \* 7 0 0

 OFF 가 . (5 Power-off )

- **MODE** 1 " Span"

S p a n 3 0 0 0

- , 가

 > 가

6.

- **MODE** 1

C A L . G O N O

- , "GO"
- **ENT**
- , "Completed" 가

C o m p l e t e d

•



• / 가 , / 가  
" Data Abnormal" 가

7.2

- **MODE** **ON/OFF**
- **MODE** 2 /

C M P G O N O

- "GO"
- **ENT**
- **MODE** 3

U n d o G O N O

- "GO"
- **ENT** "Completed" 가

C o m p l e t e d

•



• 가 가  
가 가 「0 9. 5」

8.

(IR-AHT2, IR-AHS2, IR-AHU2) 0-1V

8.1

0-1V

- **MODE**  **ON/OFF**
- **MODE** 1 ,

O H 2 0 0 0

- 
- **ENT**

- **MODE** 1

O L 1 0 0 0

- 
- **ENT**
- **ON/OFF**

0-1V

IR-AHT	-50 1000 (1)	-50 1000 (1)
IR-AHS	600 3000 (1)	600 3000 (1)
IR-AHU	900 3000 (1)	900 3000 (1)



IR-AHT	1000 ( ) , -50 ( )
IR-AHS	3000 ( ) , 600 ( )
IR-AHU	3000 ( ) , 900 ( )

8.2

「3. - 」

8.3

가

9. .

9. 1

9. 1. 1

가 가 .



가 「4. 1」 가 .

9. 1. 2

가 .



가 0 55 .

9. 1. 3 EEPROM

EEPROM 가 EEPROM  
" EEPROM ERROR"

E	E	P	R	O	M	E	r	r	o	r
---	---	---	---	---	---	---	---	---	---	---

가 가 .

9. 1. 4

[ ] 2 가

MODE

가 .

.  
. .  
. .

[ ] 2 .

9.

9.2

 .  
 .  
 .  
 . 2 가 가

9.3

 .  
 . IR-AHT 가

9.4

9.5

ENT  가 ON/OFF  
 " Initialized"

I	n	i	t	i	a	l	i	z	e	d
---	---	---	---	---	---	---	---	---	---	---

 .

 . 「 11.2 」

10.

10.1 ( IR-VHD:IR-AHS, IR-AHU )  
0.5m

D

( ) / ( ) = D ( :mm)

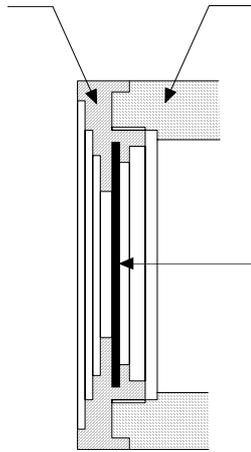
( ) IR-AHS 100 , IR-VHD54

250 540/100= 2.5 5.4( :mm)

IR-AHS	IR-AHS, IR-AHU		가			
100mm			1			
			(IR-AHS)		(IR-AHU)	
IR-VHD13	100	130(mm)	1	1.3		
IR-VHD18	130	180	1.3	1.8		
IR-VHD29	180	290	1.8	2.9	0.7	1.2
IR-VHD54	250	540	2.5	5.4	1.0	2.2

- 
- 

( )



.

10.

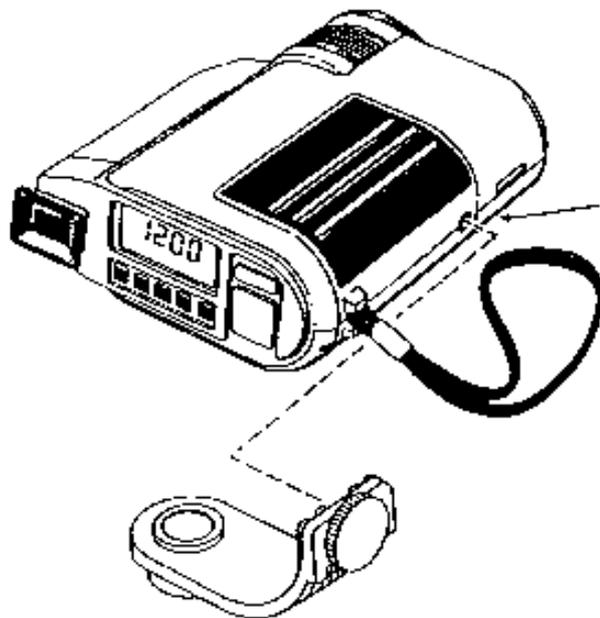
10.2 AC ( IR-VHR ) 

AC , 「3.

- AC AC100V
- AC AC
- AC
- AC

 .

10. ( IR-ZBMT ) • ( ) ( IR-VMS )



10.4 (IR-VXH2 )

- 가 , • 1 3
- 

Windows95/98 (RS-232C: D-SUB 9pin ) 가

「3 」

Windows95/98 Microsoft Corporation

11. .

11. 1

ON/OFF		
MEASURE	ON/OFF	
MODE	ON/OFF	
ENT		ON/OFF

11. 2

4

	MODE	Set	MODE
/	MODE 2	Mem	MODE 2 ( 가 )
	2		( 가 )
	MODE ON/OFF	Set	

, MODE

11. 2. 1

/

	Emi.	0.10 1.99	1.00
	Mod.	Real , Peak, Valley, Delay	Real
	T.C.	0.0 99.9s, HOLD	0.0s
	AlmH	-50 1000 , OFF (IR-AHT) 600 3000 , OFF (IR-AHS) 900 3000 , OFF (IR-AHU)	OFF
	AlmL	-50 1000 , OFF (IR-AHT) 600 3000 , OFF (IR-AHS) 900 3000 , OFF (IR-AHU)	OFF

11. 2. 2

/

	MMOD	OFF , Man, Int	OFF
	Int	00:00:01 02:00:00	00:01:00
	LDDEL		
	ADDEL		

" Int"

11. .

11. 2. 3

	DTemp
	Model
	SN
	R
	WL

11. 2. 4

	Unit	、 ° F			
1	OH	-50	1000	( IR-AHT )	1000 ( IR-AHT )
		600	3000	( IR-AHS )	3000 ( IR-AHS )
		900	3000	( IR-AHU )	3000 ( IR-AHU )
1	OL	-50	1000	( IR-AHT )	-50 ( IR-AHT )
		600	3000	( IR-AHS )	600 ( IR-AHS )
		900	3000	( IR-AHU )	900 ( IR-AHU )
/	CMP				
2	Zero	-50	1000	( IR-AHT )	-50 ( IR-AHT )
		600	3000	( IR-AHS )	600 ( IR-AHS )
		900	3000	( IR-AHU )	900 ( IR-AHU )
2	Span	-50	1000	( IR-AHT )	1000 ( IR-AHT )
		600	3000	( IR-AHS )	3000 ( IR-AHS )
		900	3000	( IR-AHU )	3000 ( IR-AHU )
2	CAL.				
2	Undo				

- 1 : . , ' ' .
- 2 : " GO" . , /

12.

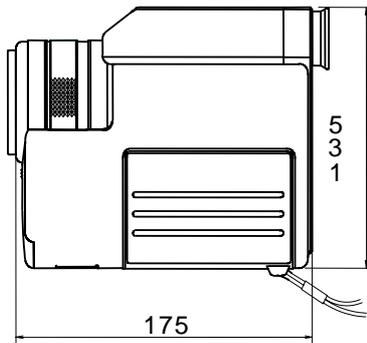
12.1

	IR-AHS	IR-AHU	IR-AHT
	Si		
	0.96 μ m	0.65 μ m	8 13μ m
	600 3000	900 3000	-50 1000
	1500 ±0.5%±1digit	200 ±2 ±1digit	200 ±1%±1digit
	1500 2000 ±1%±1digit		
	2000 ±2%±1digit		
	1 ± 1digit		
	0.015%/		300 0.15 /
			300 700 0.05%/
			700 0.025%/
	1	1 (50 )	
	0.5s	1s	
	= 1.00 0.10(0.01 )		
	가 (0 99 , 1 ) , ,		
	OFF		
	LCD 4 ,		
	1000		
	R S -232C ( IR-VXH2 )		
	가		가
	100 ( L/ D)	250	40
	500 mm		700
	D=L/100( mm)	D=L/250( mm)	D=L/40( mm)
	Finder		
	30mm	40mm	
	power-off, /°F , ,		
	0 50		
	3 4		
	3 20 ( )		
	ABS		
	700g( )		
	3 4 , ,		

	(RS-232C )	: IR-VXH2
	(0 1V, 2m )	: IR-AH 2
	(S, U ), AC , ,	

, =1.0, : 23 ±5 , : 35 75%RH

12.2



: mm

13.

0.65μ m

( =0.65μ m)

	0.42	-	( )	0.87
	0.37	-	( )	0.87
	0.17	0.12	( )	0.84
	0.32	-		0.25 0.5
	0.30	-	( )	0.70
y t t r i u m	0.35	0.35	55Fe. 37.5Cr. 7.5Al ( )	0.78
	0.54	0.34	70Fe. 23Cr. 5Al. 2Co ( )	0.75
	0.14	0.22	80Ni. 20Cr ( )	0.90
	0.07	0.07	60Ni. 24Fe. 16Cr ( )	0.83
	0.34	0.39	( )	0.85
P	0.35	-		0.22 0.4
	0.36	0.37	yttrium	0.60
	0.35	-		0.30
	0.32	0.30		0.75
	-	0.23		0.55 0.71
	0.18	-		0.18 0.43
	0.8 0.9	-		0.32 0.60
	0.43	-		0.58 0.82
	0.49	-		0.50
	0.37	0.40		0.63 0.98
	0.63	0.65		0.60 0.80
	0.35	0.37		0.20 0.57
	0.10	0.15		0.70
	0.54	0.34		0.07 0.37
	0.36	0.37		0.10 0.43
8 0 N i . 2 0 C r	0.35	-		
60Ni. 24Fe. 16Cr	0.36	-		
	0.30	0.38		
9 0 P t . 1 0 R h	0.27	-		
	0.33	0.38		
	0.35	0.35		
	0.29	-		
	0.61	0.61		
	0.59	0.59		
	0.37	0.40		
	0.24	0.30		

13.

( =0.9μ m)

	0.10 0.23
	0.015 0.02
	0.36
	0.28 0.30
	0.33 0.36
	0.03 0.06
	0.38 0.42
	0.50 0.62
	0.26 0.35
	0.25 0.30
	0.28 0.36

flannelX	0.40 0.60
flannel600	0.28
flannel617	0.29
flannel	0.85 0.93
800	0.29
	0.80 0.90
	0.30
	0.30

	0.69 0.71
	0.60
	0.68

	0.80 0.83
	0.47 0.50
	0.89 0.90

	0.90 0.95
	0.87 0.92

( =8 14μ m)

	0.05	
	0.04	
	0.03	( )
	0.20	80
	0.61	
	0.05	
	0.78	
	0.02	( )
	0.21	,
	0.64	.
	0.69	,
	0.07	
	0.05	,
	0.11	
	0.37	
	0.03	
	0.16	18-8 ,
	0.85	18-8 800
	0.07	
	0.79	
	0.07	

	0.93	
	0.95	
	0.98	
	0.92	
	0.94	
	0.92	
	0.97	
(Ni )	0.05	Ni
	0.27	:25μ m
	0.46	:50μ m
	0.72	:125μ m
	0.82	
	0.94	16
	0.93	
	0.91	
	0.90	
	0.98	
	0.92	
	0.95	
	0.96	
	0.96	
	0.98	
	0.85	
	0.90	

# CHINO

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## CHINO

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