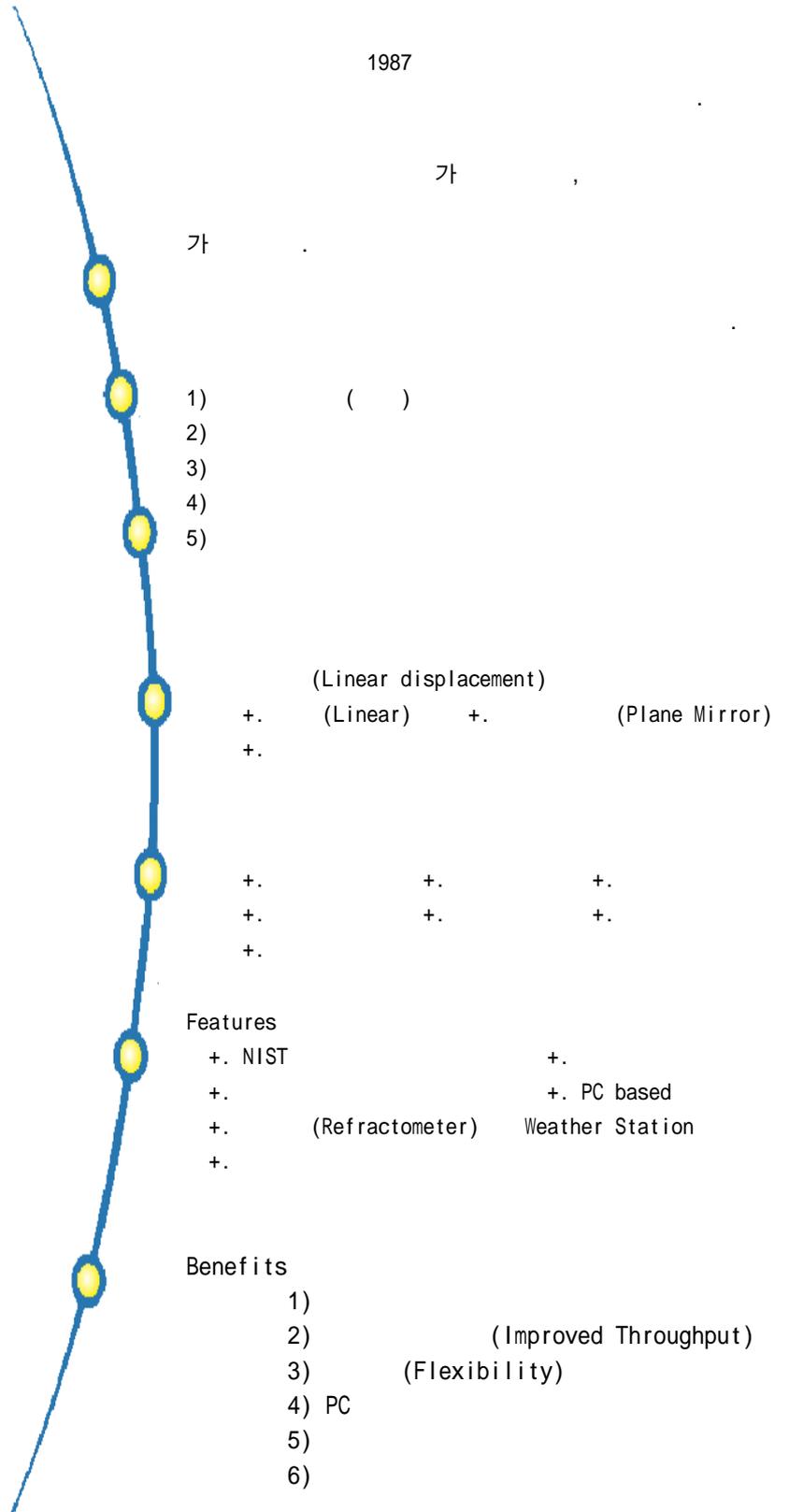


Laser Interferometry Tools for Precision Measurement





LASERS



INTERFEROMETERS & OPTICS

Excel Precision

1001A 1001F 1001B
가

Excel

(Zeeman)

NIST ISO

6

가

Excel Precision

1011A 1013A Retroreflector(
) 가

1018A 1019A Retroreflector

Excel

Precision 1018F
(Fiber)

1031F

1021A (Plane Mirror), 1012B
, 1012C differential
, 1012D

1012F

가 1011A 1018A

0 40 (32 104 F)

2.5A @ 15V DC (), 1.1A @ 15V DC()

1.5 3.0 MHz

632.99137 nm ()

1 / (2 X 10

< 0.1 X 10 ()

6 mm ()

Laser > 0.2 mW; < 1mW

<15 min

6

0 20 m

0.6 m/s

Optics ()

1014A (50/50) 1015A (33/67) splitter

1014A (50/50) splitter

1015A 33%
67%

50% 1017A () 1017B ()
(Bender) 가

splitter 가

가 가 1021A

1014A, 1015A 1018A 1022A
1011A, 1012A , 1012B, 1012C, 1012D 1012F



: +/- 1 = +/- 1PPM
 : +/- 2.5mm Hg = +/- 1PPM
 : +/- 30% Change = +/- 1PPM

27가 : 1160 a

weather station 1024B 가

Weather station

1160A weather station

feed back

Refractometer

1024B ,
1024B 1032B

가 ().

Material sensor

1163A

feed back 가

1160a weather station

+/- 0.06 +/- 1.2 mm Hg +/-2% ()
 0 40 0 775 mm Hg 0 100%()

1024B REFRACTOMETER

+/- 5 x 10 @ /128 +/- 6 x 10 @ /1024
 +/- 0.020 PPM @ /1024 +/- 0.025 PPM @ /1024

PC based

1032B 1011A 1018A
 0.01um , 1012B
 0.00025um

Coupler Based interface

coupler based electronics 1036A , 1037A
 , 1038A 1041A

* 1036A 0.16 um raw interference
 fringe 0.001 um

(1012B)
 1036B 8가 (225mhz)

direct servo application
 (stand alone) 1037A 1038A
 1036A 2

1037A 1041A
 1037A

6
 (1036A 3 1038A 6)
 1038A moving 6

가 " " servo servo
 가 가 가

A-quad-B up down : 1060A

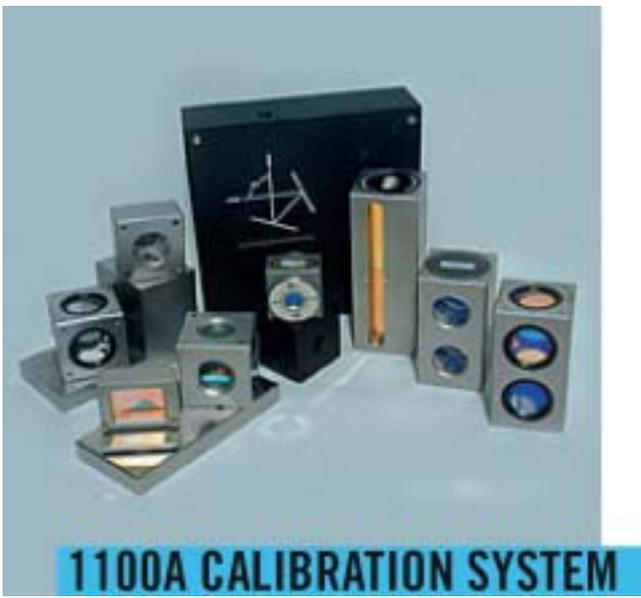
A-quad-B up/down 0,16 um
 가 , 1036A A-quad-
 B up/down

1032B PC AXIS CARD

10 nm 5 nm 24 nm
 5.3 + nm 2.65 + nm 1.33 + nm

1036A FAST PULSE CONVERTER

()
 5 nm
 8.1 cm/s ()



1100A SYSTEM SETUP CONFIGURATIONS



1100a

가

- NIST()

가

가

NIST 1001 가

1100A 가 , 1031A , 1032B

가 가

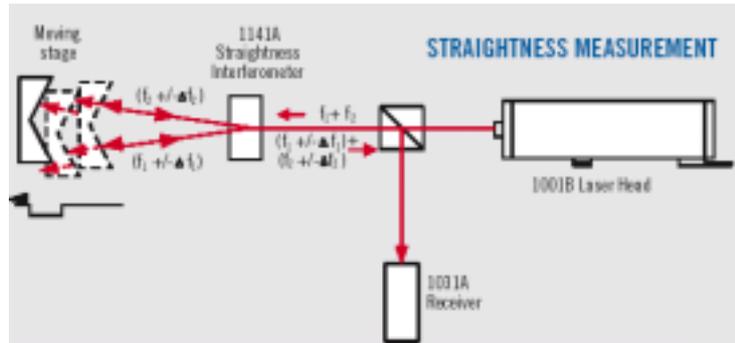
가

1110A reference

() 11021A angular

1120A angular optics

1140A



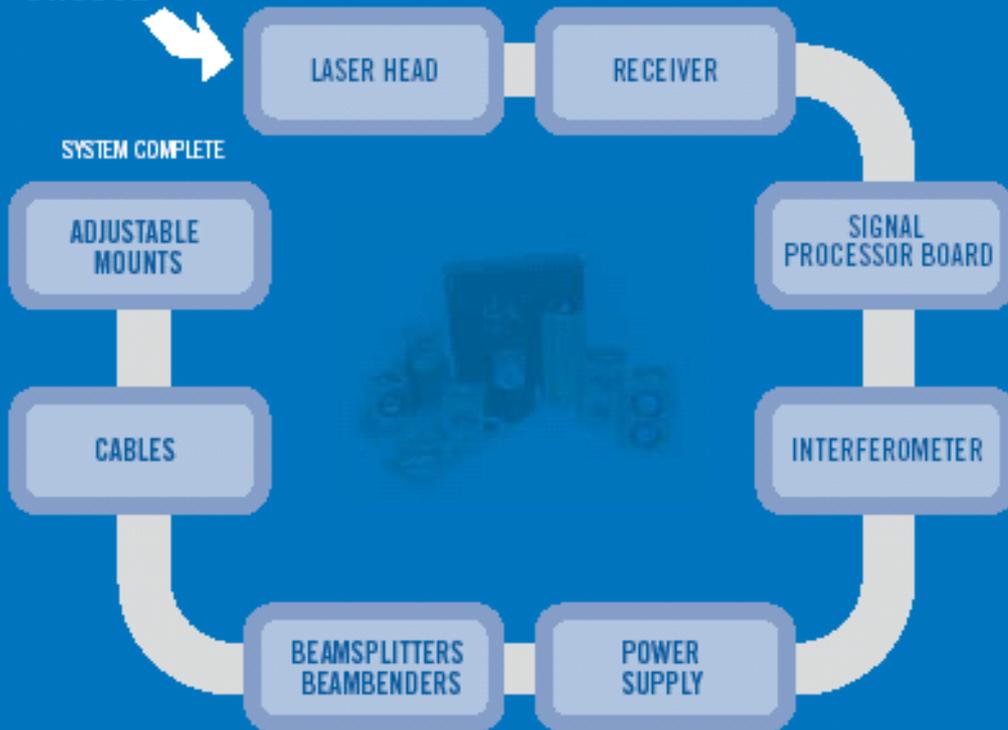
1100A :

1110A	1120A	1130A	1140A
10 nm	0.05 arc-sec	30nmW /50mm	0.55μm
+/- 1X10	+/- 0.2%	+/- 0.2%	0.4 ppm
0 ~ 20M			+/- 1.5mm 0.1~3M ()

* - (),
(+/- 5 X 10 in air without air refractive index correction,
+/- 1.4 X 10 in air with refractive index correction)

DESIGN YOUR OWN MEASURING SOLUTION

CHOOSE

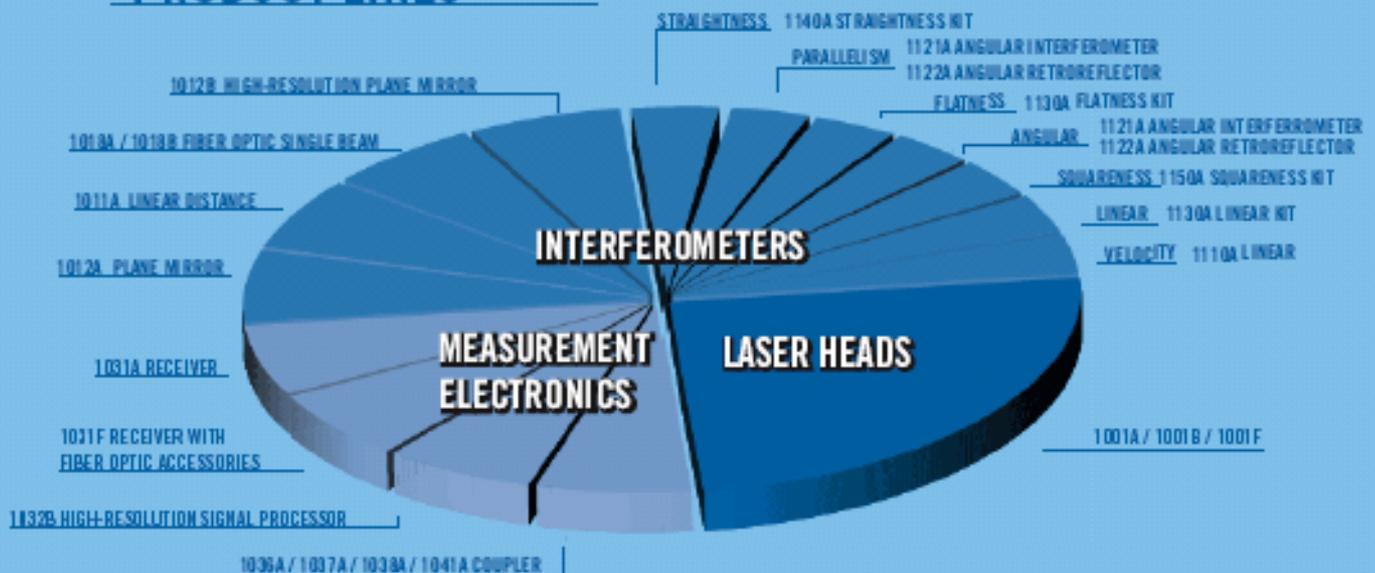


구성예:
 단축 선형변위 측정
 - 10 mm 해상도:
 - 최대 측정속도=0.5mm/s
 - PC용 인터페이스
 - 파장보정장치 불필요

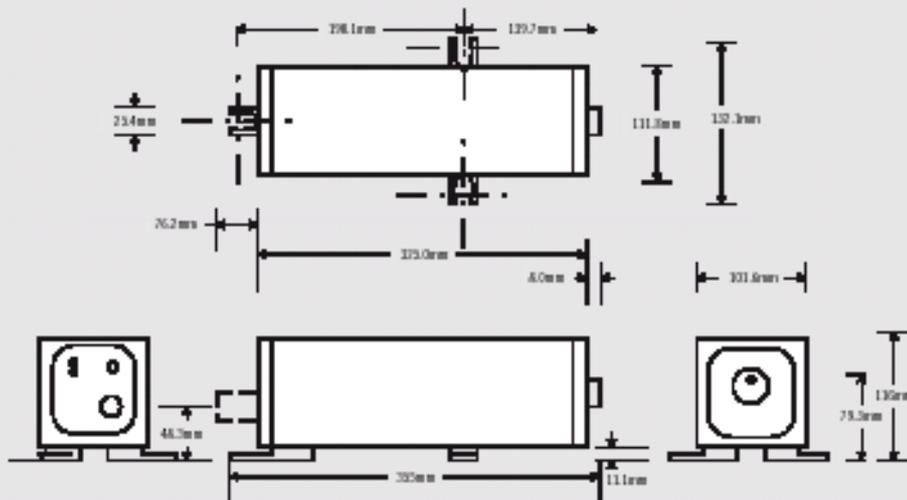
필요 사양:

1001F 레이저 헤드
 1031A 데이터 레시버
 1032A 신호처리기판
 1011A 선형간섭계
 1040B 전원공급장치
 1059A 레이저헤드용용선선
 1058A 데이터수신용용선선
 1022A 조절용 장치대 (선택)
 * PC 호환가능

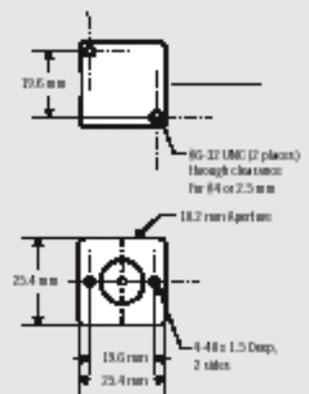
PRODUCT LINES



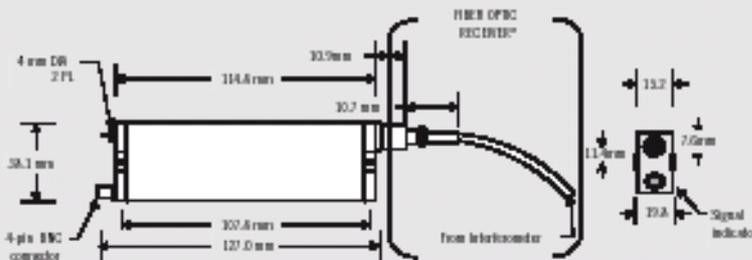
1001F LASER HEAD



1014A / 1015A BEAMSPLITTER 1017A BEAMBENDER



1031A RECEIVER / 1031F FIBER OPTIC RECEIVER*

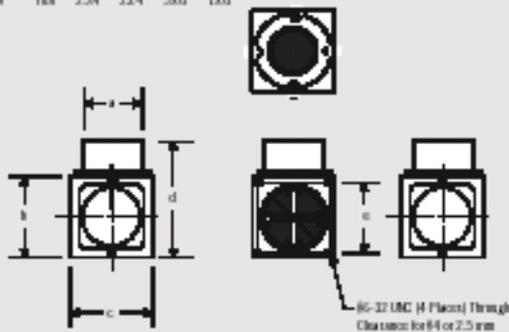


1013A RETROREFLECTOR 1019A SMALL RETROREFLECTOR

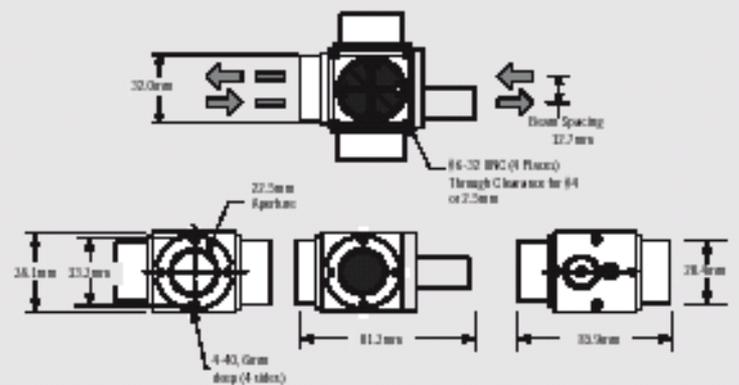


1011A LINEAR INTERFEROMETER / 1018A SINGLE BEAM INTERFEROMETER

	a	b	c	d	e
1011A	28.4	26.1	28.2	62.0	32.0
1018A	ns	25.4	25.4	28.6	18.6



1012A PLANE MIRROR INTERFEROMETER / 1012F WITH FIBER OPTIC ACCESSORIES



NOTE: DRAWINGS NOT TO SCALE

ALL DIMENSIONS IN MILLIMETERS

For more information, please contact

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