



Network SuperVision™ 2009

Решения для инсталляции, тестирования, мониторинга и анализа корпоративных и телекоммуникационных сетей





Fluke Networks

sion.

Network SuperVi-
www. ukenetworks.com,



FlukeNetworks.com



Ethernet



Fluke Networks

10-

Metro Carrier Ethernet

OTDR

NetFlow

VoIP



10-

802.11

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Network SuperVision

www.ukenetworks.ru

Fluke Networks
P.O. Box 777, Everett, WA USA 98206-0777

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NGN

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Fluke Networks Network SuperVision

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SuperVision™

Network

NGN

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- support@ ukenetwork.com.

Network SuperVision Gold Support Programs

Fluke Networks

: 24/7/365

61.



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Fluke Networks

(10BASE-T, 100BASE-TX, 1000BASE-T 10GBASE-T).

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	DTX CableAnalyzer™	CableIQ™ Quali cation Tester	MicroScanner²	MicroMapper™ Pro
	‡			
стандартов TIA/ISO	IV			
методу Pass/Fail	9- 6			
	‡	‡		
(10/100/VoIP/Gig)		‡		
: NEXT, ELFEXT, RL	‡			
	‡	‡		
:	‡	‡	‡	
	‡	‡	‡	‡





DTX CableAnalyzer™

DTX CableAnalyzer™

(IV)

33%

E

9

‡

III (E),

IIIe (E)

IV (F Fa)

Ile (D),

‡

‡

‡

Ethernet, Class F 900
CATV

- 10 Gigabit

‡

‡

‡

‡

DTX-OTDR

DTX

DTX-1800					900
DTX-1200	350	/			D/E - 9
DTX-LT	350		30		D/E -
DTX-MFM2		850/1300/1310/1550	DTX 850 1300		(VFL)
DTX-SFM2		850/1300/1310/1550	DTX 1310 1550		(VFL)
DTX-GFM2	(1000BASE-LX),		850 VCSEL (1000BASE-SX)		1310 850/1300/1310/1550
DTX-OTDR-KIT					850/1300/1310/1550 (VFL)
DTX-1800-MS	DTX-1800	DTX-MFM2	DTX-SFM2		
DTX-1800-MO	DTX-1800		DTX-MFM2	DTX Compact OTDR	
DTX-1800-MSO	DTX-1800 DTX Compact OTDR,	DTX-MFM2 FT500	DTX-SFM2		
DTX-1800-M	DTX-1800		DTX-MFM2		
DTX-1800-MS	DTX-1800	DTX-MFM2	DTX-SFM2		
DTX-1800-MO	DTX-1800		DTX-MFM2	DTX Compact OTDR	



10-

DTX-10GKIT, 10 (ANEXT AFEXT) DTX-1800, 500

‡ DTX-10GKIT DTX-1800



‡

DTX,

10

‡

DTX-10GKIT	AxTalk Analyzer™, AXTERM	DTX-PLA002S	DTXCHA001AS	DTX-AXTLK1, DTX-
DTX-AXKIT		DTX-AXTLK1	AxTalk Analyzer™	
DTX-PLA002S		6A/ E		
DTX-CHA001AS		6/ E (AXTalk)		
DTX-AXTERM				



DTX Compact OTDR

DTX-OTDR

DTX.

DTX-OTDR

Дополнительная информация об оптических аксессуарах доступна на странице 20.

DTX-OTDR-QMOD	DTX Compact OTDR:	4-	850/1300/1310/1550 OTDR
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DTX

IP

DTX-NSM	DTX-NSM PoE	:	
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►► CableIQ™ Qualification Tester



CableIQ

10/100, VoIP Gigabit Ethernet,

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12

CableIQ Service Kit



CableIQ Advanced IT Kit

CableIQ Gigabit Service Kit



CableIQ Gigabit Service Kit

VoIP, 10/100/Gigabit Ethernet

†
†
†
†
†
†

(/ /)

IntelliTone™

CIQ-100	CableIQ	
CIQ-KIT	CableIQ Advanced IT Kit IntelliTone 200,	Intel-
CIQ-SVC	CableIQ Service Kit IntelliTone 200,	LinkRunner,
CIQ-GSV	CableIQ Gigabit Service Kit LinkRunner Pro, IntelliTone 200,	CableIQ
CIQ-KRQ	CableIQ Residential Quali er Kit RJ45-RJ45 (2), RJ11-RJ11 (2), RCA, (50),	CableIQ bare wire, BNC
CIQ-VOIP	CableIQ VoIP Enterprise Service Kit IntelliTone 200, RJ45-RJ45 (2), USB (2), 75 RJ11-RJ11, CableIQ	CableIQ NetTool Series II Pro VoIP, RJ45/11, NetTool Series II Pro VoIP

DTX



DTX-COAX	
DTX-PCU6S	(DTX-PCU6/MN) : DTX (DTX-PCU6/SR) в для главного модуля DTX
DTX-PLA001S	(DSP-PMxx) PM06. IDC
DTX-PLA001	
DTX-PLA002S	6 /
DTX-PLA002PRP	DTX-PLA002
DTX-PLCAL	
DTX-TERA	(2) F (2) Siemon TERA :
DTX-PLA011	Siemon TERA
DTX-CHA011	Siemon TERA
DTX-CHA001A	
DTX-TSET	DTX
DTX-ACUN	/
DTX-CASE	DTX
DTX-STRP	DTX
DTX-USB	USB (mini-B)
DTX-SER	RS-232 (DB-9 - IEEE 1394)
DTX-LION	LION



CableIQ

CIQ-CIT	CableIQ
CIQ-COAX	CableIQ : F- , BNC RCA
CIQ-IDK24	CableIQ 2-4
CIQ-IDK57	CableIQ 5-7
CIQ-RJA	RJ45/11
CIQ-SPKR	Cable IQ
CIQ-WM	Cable IQ ()
CLIP-SET	RJ45 " "
MT-8200-53A	IntelliTone Pro 100
MT-8200-63A	IntelliTone Pro 200



LinkWare™

LinkWare

LinkWare,

LinkWare,

TIA 606-A

DTX CableAnalyzer, OptiFiber OTDR, CertiFiber SimpliFiber™ Pro

LinkWare™ Stats

LinkWare	LinkWare



LinkWare™ Stats

LinkWare Stats

LinkWare,

Network

SuperVision-

Fluke Networks.

LinkWare

LinkWare-Stats	LinkWare



MicroScanner²

MicroScanner

MicroScanner² Professional Kit (MS2-KIT) includes the MicroScanner² handheld device, IntelliTone Pro 200, RJ45 termination test kit (MS2-TTK), and RJ45 termination test kit (MS2-TTK). The device is used for testing and identifying network cables. It features a color LCD screen and a keypad. The device is compatible with 10/100/1000 Ethernet, PoE, and RJ-45 ports. It also supports IntelliTone and IS60 termination testing.



MS2-100	MicroScanner ²
MS2-KIT	MicroScanner ² Professional Kit : MicroScanner ² , ID #s 2-7, IntelliTone Pro 200, bare wire, RJ45, -
MS2-TTK	MicroScanner ² Termination Test Kit : MicroScanner ² , IS60, IntelliTone Pro 200, - RJ45 RJ11
CLIP-SET	RJ-45 - " "
MT-8200-63A	IntelliTone Pro 200



MicroMapper™ Pro

MicroMapper Pro

MicroMapper Pro Kit (MMP-KIT) includes the MicroMapper Pro handheld device, MicroMapper Pro 3000, and MicroMapper Pro 3000 termination test kit (MMP-TTK). The device is used for testing and identifying network cables. It features a color LCD screen and a keypad. The device is compatible with 10/100/1000 Ethernet, PoE, and RJ-45 ports. It also supports IntelliTone and IS60 termination testing.



MMP-50	MicroMapper Pro
MMP-KIT	MicroMapper Pro Kit : MicroMapper Pro, #2-8 Pro3000
MMP-TTK	MicroMapper™ Pro Termination Test Kit : MicroMapper™ Pro, IS50, Pro3000, F- ,
MMP-IDK28	MicroMapper Pro ID #2-8
MMP-ID1	MicroMapper Pro ID #1
26100900	Pro3000



IntelliTone™ Pro

IntelliTone™ Pro

Fluke Networks –



IntelliTone
SmartTone™

MT-8200-60A	IntelliTone Pro 200 F- RJ-11,	:	IntelliTone Pro 200, RJ-45
MT-8200-50A	IntelliTone Pro 100 F- RJ-11,	:	IntelliTone Pro 100, RJ-45
MT-8200-61A	IntelliTone Pro 200		
MT-8200-51A	IntelliTone Pro 100		
MT-8200-63A	IntelliTone Pro 200		
MT-8200-53A	IntelliTone Pro 100		

Pro3000™

Pro 3000



SmartTone.
, RJ-11

16



SmartTone

26000900	Pro3000
26100900	Pro3000
26200900	Pro3000
26100103	Pro3000



TS[®]90

SmartTone™.

2,500



SmartTone™



26500090	BNC/
26501100	BNC " " TS90
26501160	TS90
26501200	BNC - F ()
26501300	BNC - F ()
26501600	Banana
26501700	BNC - Banana - ABN



TS[®]100

TS100



915



SmartTone™



26500000	" " TS100 BNC
26500500	ABN BNC - Banana -
26500610	" " () TS100 BNC
26501100	BNC " " TS100
26501200	BNC - F ()
26501300	BNC - F ()
26501600	Banana
26501700	BNC - Banana - ABN



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	OptiFiber® OTDR	DTX Compact OTDR	DTX	CertiFiber®	SimpliFiber™ Pro	FiberInspector™ Pro	VisiFault™
методу Pass/Fail	†	†	†	†			
	†	†	†	†	†		
	MM, M	MM, M	MM, M		MM, M	MM, M	MM, M
	†	†	†	†	†		
	†		†	†			
OTDR	†	†					
	†				†	†	
/	†	†	†		†		†
/	†		†	†	†		
	†		†	†	†		
	†	†					
	LED, FP LASER	LED, FP LASER	LED, FP LASER, VCSEL	LED	LED, FP LASER		LASER





OptiFiber® OTDR

10 / ,

OptiFiber® OTDR.

OptiFiber
OTDR,

LinkWare,



†
™, OTDR

ChannelMap

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†

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†

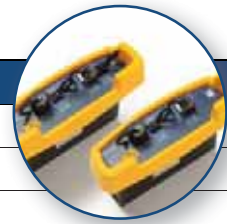
†

OTDR

LinkWare

OF-400-01	OptiFiber	62.5
OF-500-01/50M	OptiFiber	50
OF-400-02	OptiFiber	62.5
OF-500-02/50M	OptiFiber	50
OF-400-03	OptiFiber MM	
OF-500-10	OptiFiber	62.5
OF-500-10/50M	OptiFiber	50
OF-500-13	OptiFiber	
OF-500-15	OptiFiber	62.5
OF-500-15/50M	OptiFiber	50
OF-500-35	OptiFiber (62.5)	
OF-500-35/50M	OptiFiber (50)	
OF-500-45	OptiFiber (62.5 50)	
OF-500-50	DTX-1800 OptiFiber (62.5 50) MFM2 SFM2	

▶▶ Модули/Аксессуары к OptiFiber



OFTM-5610B	OTDR		
OFTM-5611B	OTDR		
OFTM-5612B	OTDR	/	
OFTM-5730	OTDR		(VFL)
OFTM-5731	O OTDR		(VFL)
OFTM-5732	O OTDR	(VFL)	/
OFSR-MMREM		DTX	OptiFiber
OFSR-SFM		DTX	DTX
OFSR-MFM		DTX	DTX
OFTM-5352		FiberInspector Pro	(250x/400x)

▶▶



NFK1-LAUNCH	SC/SC, 62.5	, 100
NFK2-LAUNCH	SC/SC, 50	, 100
NFK3-LAUNCH	SC/SC, 9	, 130
NFK1-LAUNCH-ST	SC/ST, 62.5	, 100
NFK1-LAUNCH-LC	SC/LC, 62.5	, 100
NFK1-LAUNCH-FC	SC/FC, 62.5	, 100
NFK2-LAUNCH-ST	SC/ST, 50	, 100
NFK2-LAUNCH-LC	SC/LC, 50	, 100
NFK2-LAUNCH-FC	SC/FC, 50	, 100
NFK2-LAUNCH-E2K	SC/E2000, 50	, 100
NFK3-LAUNCH-ST	SC/ST, 9	, 130
NFK3-LAUNCH-LC	SC/LC, 9	, 130
NFK3-LAUNCH-FC	SC/FC, 9	, 130
NFK3-LAUNCH-E2K	SC/E2000, 9	, 130

Посетите www.flukenetworks.com/OTDRdemo





DTX –
Compact OTDR.

DTX

DTX



DTX

DTX.

Pass/Fail.

(VFL)

LinkWare.

DTX-MFM2	(850 1300)
DTX-SFM2	(1310 1550)
DTX-GFM2	

Посетите www.flukenetworks.com/LearnAboutFiber





DTX Compact OTDR

Fluke Networks

DTX Compact OTDR

DTX.

. DTX Compact OTDR

- ‡
- ‡
- ‡
- ‡

DTX Compact OTDR

850 , 1300 , 1310 , 1550

DTX Compact OTDR (DTX-OTDR-KIT)

DTX

OTDR.

(DTX-1800-MSO).

Комплект для сертификации оптики (DTX-OTDR/LL-KIT)

DTX.

(DTX-1800-MO)

DTX-1800,
DTX-MFM2 DTX Compact OTDR.

DTX Compact OTDR (DTX-OTDR-QMOD)

DTX

DTX OTDR (DTX-QUAD-OTDR)
OTDR

OTDR,

	DTX 1800-MSO	DTX-QUAD-OTDR	DTX-OTDR-KIT	DTX-OTDR/LL-KIT	DTX-OTDR-QMOD	DTX-1800-M	DTX-1800-MO
OTDR 850/1300/1310/1550	‡	‡	‡	‡	‡	‡	‡
DTX-1800	‡	‡				‡	‡
DTX-1800	‡					‡	‡
	‡			‡		‡	‡
	‡		‡	‡		‡	
FiberInspector Mini	‡		‡	‡			
DTX	‡		‡	‡		‡	
DTX Compact OTDR	‡	‡	‡	‡	‡	‡	
DTX-MFM2	‡			‡			‡
DTX-MSM2	‡			‡			



SimpliFiber Pro®

SimpliFiber® Pro



- †
- †
- †
- †
- †
- †

Min/Max –
CheckActive –

1000

LinkWare™

VisiFault ()

(FTK1450)

850, 1300, 1310, 1490, 1550 1625

(FTK1300 FTK1350)

850 1300

(FTK1000 FTK2000)

850 1300 1310 1550

VFL

	FTK1000	FTK1300	FTK1350	FTK1450	FTK2000
SimpliFiber	†	†	†	†	†
SimpliFiber 850/1300	†	†	†	†	
SimpliFiber 1310/1550				†	†
FindFiber Remote ID		†	†	†	
FT120		†			
FT500 FiberInspector			†	†	
VisiFault		†	†	†	
				†	
	†	†	†	†	†



▶▶ CertiFiber®

CertiFiber

- †
- †
- †
- †
- †

850 1300
1000

8240-04	CertiFiber, , LinkWare
8002-15	ST (1)
8002-16	S (1)
8002-17	FC (1)
8002-19	LC (1)



▶▶

Fluke Networks

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- †
- †
- †

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NFC-Kit-Case	2.5 1.25
NFC-Kit-Box	2.5
NFC-Cube	500
NFC-Cards-5pack	5 12
NFC-SolventPen	(9)
NFC-Swabs-1.25	LC MU (25)
NFC-Swabs-2.5	SC, ST (50)
NFC-Swabs-Multi	MTP/MPO (25)
NFC-Case	
FT525	FiberInspector Mini



F
y
y
F
F

3,5

FiberInspector™ Pro

250 400

FT600	FiberInspector Pro
OFTM-5352	FiberInspector Pro OptiFiber OTDR
OPV-FT600	FiberInspector Pro OptiView INA



FiberInspector Mini



FiberInspector Mini

200

FiberInspector™ Mini

FT500	FiberInspector Mini
FT525	FiberInspector Mini



FT120

FiberViewer™

FiberViewer

200X, FT140

400X

FT120	FiberViewer, 200X
FT140	FiberViewer, 400X
NF350	1.25



VisiFault™

2.5 1.25

VisiFault	2.5	VisiFault
NF380	1.25	



NFM110	FiberInspector Mini (LC, FC Ø 1.25)
NF390	FiberInspector Mini SC (APC)
NFM120	FiberInspector Mini (NiMH)
NF350	(FT-120/FT-140) Ø 1.25
NF360	FiberInspector Pro MT-RJ
NF362	FiberInspector Pro LC
NF366	FiberInspector Pro MU
NF368	FiberInspector Pro E2000
NF370	FiberInspector Pro Ø 1.25
NF395	FiberInspector Pro MTP/MPO
NF300SM	FiberInspector Pro SC (APC)
NF310SM	SC OTDR



NF-MANDREL-50	, 50
NF-MANDREL-625	, 62.5
NF300SM	ST/ST
NF310SM	SC/SC
NFA-FC	FC
NFA-LC	LC
NFA-SC	SC
NFA-ST	ST
NFB1/2-LC/ST	SC, LC ST
NFK1-DPLX-FC	62.5 FC
NFK1-DPLX-LC	62.5 LC
NFK1-DPLX-SC	62.5 SC
NFK1-DPLX-ST	62.5 ST
NFK1-LC	LC, 62.5
NFK1-MANDREL-KIT	50 62.5
NFK2-DPLX-FC	50 FC
NFK2-DPLX-LC	50 LC
NFK2-DPLX-SC	50 SC
NFK2-DPLX-ST	50 ST
NFK3-DPLX-FC	FC
NFK3-DPLX-LC	LC
NFK3-DPLX-SC	SC
NFK3-DPLX-ST	ST
NFK1-SMPLX-SC	62.5 SC (2)
NFK1-SMPLX-LC	62.5 LC (2)
NFK1-SMPLX-ST	62.5 ST (2)
NFK2-SMPLX-SC	50 SC (2)
NFK2-SMPLX-LC	50 LC (2)
NFK2-SMPLX-ST	50 ST (2)
NFK3-SMPLX-SC	O SC (2)
NFK3-SMPLX-LC	O LC (2)
NFK3-SMPLX-ST	ST (2)



Fluke Networks



Fluke Networks

JackRapid Termination Tool

Pro-Tool



Инструмент JackRapid™

JackRapid –



JackRapid

Аккуратная и чистая заделка с помощью JackRapid.



1.



2.



3.

JackRapid

IDC-



4.



5.



6.

IDC-

JR-LEV-1	JackRapid (Leviton 41106, 41108, 5G108)
JR-LEV-1-H	JackRapid (Leviton 41106, 41108, 5G108)
JR-SYS-UNI-1	JackRapid (Systemax MPS100E, C5,M1BH Uniprise UNJ600/500/300)
JR-SYS-UNI-1-H	JackRapid (Systemax MPS100E, C5, M1BH Uniprise UNJ600/500/300)
JR-LEV-2	JackRapid (Leviton 61110, 5G110, 6110G)
JR-LEV-2-H	JackRapid (Leviton 61110, 5G110, 6110G)
JR-SYS-2	JackRapid (Systemax MGS400, MGS500, MFP420, MFP520)
JR-SYS-2-H	JackRapid (Systemax MGS400,MGS500, MFP420, MFP520)
JR-ORT-2	JackRapid (Ortronics TJ5E00, TJ600, TJ610)
JR-ORT-2-H	JackRapid (Ortronics TJ5E00,TJ600, TJ610)
JR-ADC-2	JackRapid (ADC KM8, Copper Ten®)
JR-ADC-2-H	JackRapid (ADC KM8, Copper Ten®)
JR-ERGOHANDLE	JackRapid



D914S



AWG 24/26

D914™S

AWG 22

10061000	D914S	
10061100	D914S	EverSharp 66
10061110	D914S	EverSharp 110
10061501	D914S	EverSharp 66
10061503	D914S	BIX EverSharp 66/110
10061810	D914S	EverSharp 66/110



D914



24/26

D914™

EverSharp 66/110.

AWG

AWG 22

10051000	D914	
10051100	D914	EverSharp 66
10051110	D914	EverSharp 110
10051120	D914	EverSharp 110
10051501	D914	EverSharp 66
10051501	D914	EverSharp 110



D814

Deluxe,



AWG 24/26

D814™

66/110

AWG 22

10054000	D814	
10055000	D814	EverSharp 66
10055110	D814	EverSharp 110
10055200	D814	EverSharp 110
10055501	D814	EverSharp 66
10055501	D814	EverSharp 110
10055503	D814	BIX EverSharp 66/110



110



D-Impactor™

5-

10059000	D-Impactor	
10059030	D-Impactor	



▶▶ **Лезвия EverSharp™**

Fluke Networks
EverSharp.

IDC 66/110

110 66

IDC

10056500	EverSharp 66
10176500	EverSharp 110
10178600	EverSharp 110/66

D914S, D914 D814.



10979003	66
10979004	110
10979002	



Fluke Networks

EverSharp,

10056000	10056003	10057000	10176000	10436001	10465001
66	8762D - 66	630	110		3M System D
10056225 66 (100)			10176225 110 (100)		

10645001	10565000	10565110	10665000	10051200	10051300
	Krone	Krone/110	BIX	(D914 D914S)	

Pro-Tool™



D914 D814



IS60 Pro-Tool
D914S
D-Snips
Mini Maglite®
EverSharp 66/110



IS25 Pro-Tool
D-Snips
Mini Maglite®



IS50 Pro-Tool
D914S
D-Snips
EverSharp 66/110



IS15 Pro-Tool
D-Snips



IS40 Pro-Tool
D814
D-Snips
EverSharp 66/110
Probe Pic



11291000	IS40 Pro-Tool
11291400	IS40
11292000	IS50 Pro-Tool
11292400	IS50
11293000	IS60 Pro-Tool
11293400	IS60
11295000	IS25 Pro-Tool
11295400	IS25
11296000	IS15 Pro-Tool
11296400	IS15



Fluke Networks,

D814,
4-

Probe Pic,
RJ-11

D-Snips,
EverSharp 66/110



TS® 30

Pro3000

D814

EverSharp 66/110

Probe Pic

RJ-11 4-



- 1

TS®30

D814

EverSharp 66/110

D-Snips

4-

Probe pic

- 2

Pro3000

D814

EverSharp 66/110

D-Snips

4-

Probe pic



11290000	-1 (TS®30)
11289000	-2 (Pro3000)
11289400	



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RJ-45 8 RJ-11 RJ-12 4

11212530	-



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44400000	



Fluke Networks

D-Snips™

D-Snips.

44300000	D-Snips

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AWG 12 16



44500000	

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AWG 12 16.





AWG 22/24; 2- 3-
RG58/59.
Te on® 2 12,5
25 -100



11230002	
44210013	AWG 22/24
44200013	AWG 22/24
11231257	,2
11231255	,2 3



Need-L-Lock
поз: 4
Бл:
Дл:
Зс:
В:
с:

Need-L-Lock™

Scotch-Lok (UR/UY/UG)

11294000	Need-L-Lock
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Probe Pic



44600000	Probe pic
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(7/16 3/8)



44007000	
44507003	AWG 22
44507004	AWG 24

(AWG 22 24)



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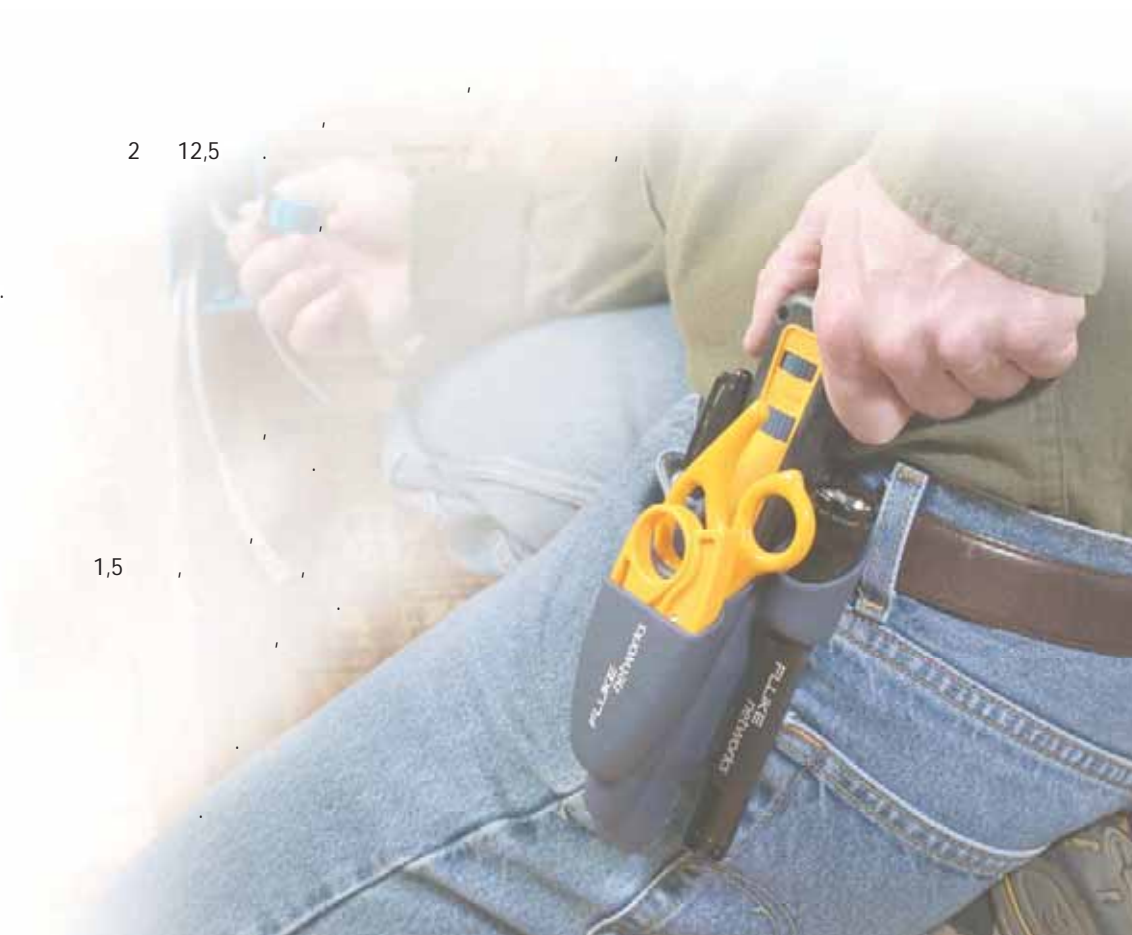


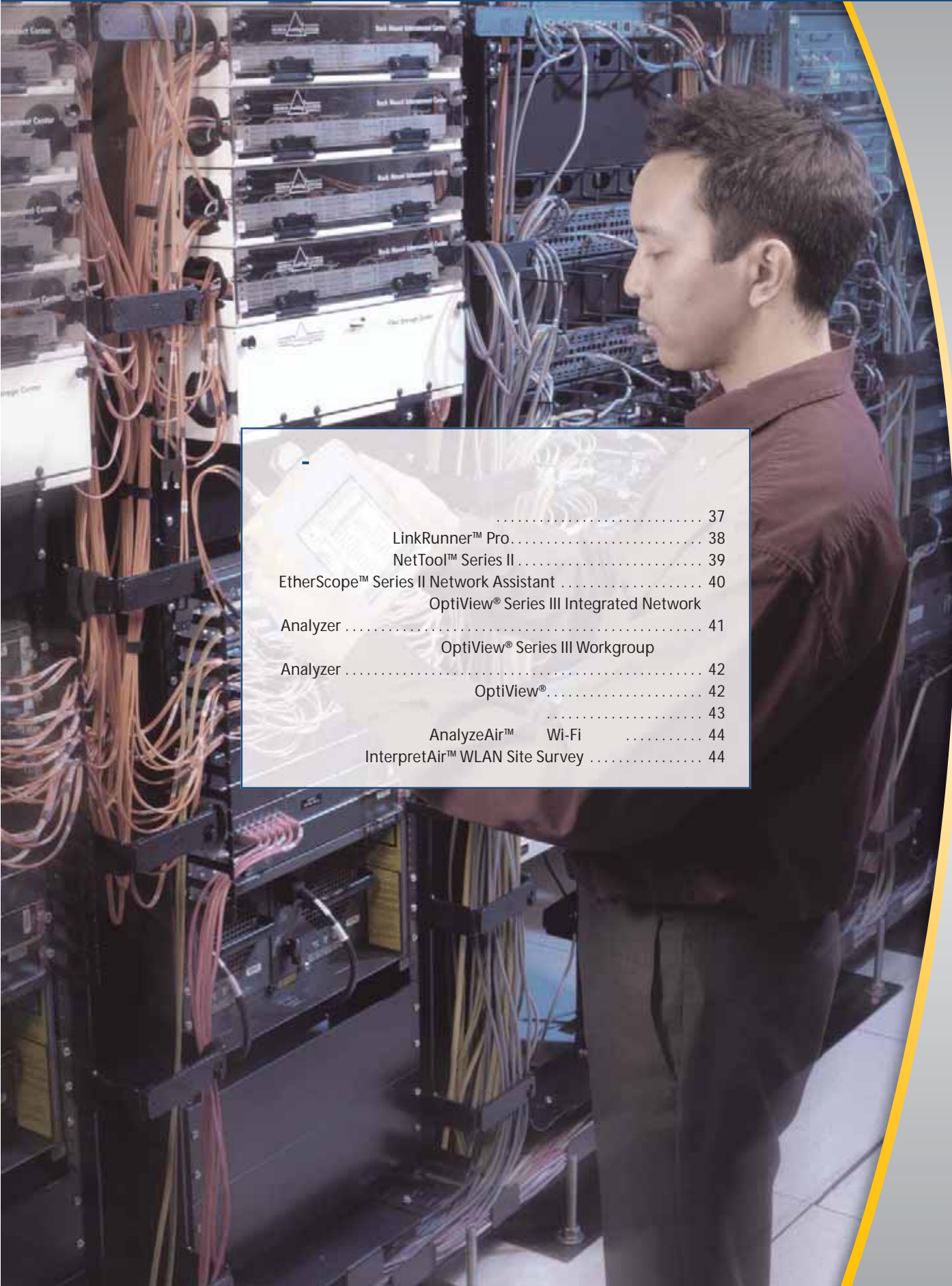
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LAN, WLAN, VLAN WAN



Fluke Networks
LAN, WLAN, VLAN WAN



LAN



	OptiView® Series III Integrated Network Analyzer	EtherScope™ Series II Network Assistant	NetTool™ Series II	LinkRunner™ Pro
		‡	‡	‡
(10/100/Gig)	‡	‡	‡	‡
/ID	‡	‡	‡	‡
802.1x	‡	‡	‡	‡
/ PoE		‡	‡	‡
VoIP			‡	
" "			‡	
	‡		‡	
	1000BASE-SX Included			
	10,000+	1000+	PC, , IP	PC,
VLAN	‡	‡		
WAN	‡			
	‡			
VLAN	‡			
IPv6				
Wireless LAN				
VoIP	‡			
LAN/WAN	‡			
	‡	‡		
	7	1		



Анализ сетей 802.11 a/b/g/n

	OptiView® Series III Integrated Network Analyzer	EtherScope™ Series II Network Assistant	AnalyzeAir™ Wi-Fi	InterpretAir™ WLAN Site Survey
	‡	‡		
			‡	
802.11 a/b/g	‡	‡	‡	‡
802.11 n	‡		‡	
	‡	‡		
	‡	‡	‡	
	‡	‡		
	‡	‡		
			‡	‡
				‡
				‡



LinkRunner™ Pro

LinkRunner Pro

10/100 / , LinkRunner Pro

10 Ping, PoE,
802.1 ,
Cisco, Extreme , , CDP/EDP/LLDP.
IntelliTone

PC.



- ‡ 10/100/1000: /
- ‡ Ping : DHCP, , DNS,
URL
- ‡ 802.1X: EAP,
- ‡ PoE: IEEE 802.3af
- ‡ : Cisco, Extreme IEEE LLDP
- ‡ :
- ‡ ID : IntelliTone
- ‡ : USB

LRPRO-1000	LinkRunner Pro Network Multimeter : LinkRunner Pro, ID #1 , LinkRunner Connect CD, USB , LinkRunner Pro ()
LINKRUNNER	LinkRunner 10/100 /
CIQ-GSV	CableIQ Gigabit Service Kit : CableIQ , LinkRunner Pro, IntelliTone 200,
LRPRO-KIT	LinkRunner Pro Extended Test Kit : LinkRunner Pro, IntelliTone Pro 200, #1-6, RJ-45 - 8 " " LinkRunner Connect CD
LINKRUNNER-KIT	LinkRunner Extended Test Kit : LinkRunner 10/100 / , #1-8, RJ-45, IntelliTone 100, RJ-45 - 8 " " , NiMH, PC Inspector
LRPRO-REFLECT-OPT	Re flector LinkRunner Pro
LRPRO-LION	LinkRunner Pro



NetTool™ Series II

NetTool Series II.

NetProve™ –

LAN, WAN,

10/100/1000

IP
PoE

IntelliTone™.

NetProve:

802.1x.

10/100/1000

, IP

VoIP:



NTS2-NSKIT	NetTool Series II Network Service Kit : 10/100/1000 VoIP, NetProve, IntelliTone, IntelliTone Pro 200, NetTool Connect, #1-6
NTS2-VOIP	NetTool Series II Pro VoIP : VoIP, NetProve, IntelliTone, NetTool Connect 10/100/1000
NTS2-PRO	NetTool Series II Pro : NetProve, IntelliTone, NetTool Connect 10/100/1000
NT-VOIP	NetTool 10/100 Pro VoIP : VoIP, NetTool Blaster 10/100
NT-PRO	NetTool 10/100 Pro : NetTool Blaster 10/100
NT	T NetTool (), NetTool Blaster
NT-PRO-OPT	NT NT-PRO
NTS2-MONAUTH-OPT	NTS2-PRO NTS2-VOIP
NT-VOIP-OPT	NT-PRO NT-VOIP
NTS2-VOIP-OPT	NTS2-PRO NTS2-VOIP
NT-AC-ADAPT	NT 10/100
NT-Holster	NT 10/100
NT-BATT-CHG	NT 10/100 LinkRunner
BATT-AA-NIMH	NiMH NT LinkRunner (4)
DTX-ACUN	DTX, NTS2, ES, ES2
NTS2-POWERPACK	NT Series II



» EtherScope™ Series II Network Assistant



- †
- †
- †
- †
- †

10/100/1000
802.11 Ethernet
Ethernet 1 / LAN
10/100/1000, VLAN QoS.
802.11a/b/g WLAN
802.11n.
LAN WAN IETF RFC 2544 1 /

ES2-LAN-SX	EtherScope Series II Network Assistant	802.3 LAN
ES2-LAN-SX/I	EtherScope Series II Network Assistant	802.3 LAN, ITO/RFC 2544
ES2-LAN-SX/I-KIT	† EtherScope Series II Network Assistant RFC 2544	802.3 LAN, ITO/ LinkRunner Pro Re ector
ES2-PRO-SX/I	EtherScope Series II Network Assistant ITO/RFC 2544	802.3 LAN 802.11a/b/g WLAN,
ES2-PRO-SX/I-KIT	† EtherScope Series II Network Assistant WLAN, ITO/RFC 2544	802.3 LAN 802.11a/b/g LinkRunner Pro Re ector
ES2-PRO-SXLX-I/S	EtherScope Series II Network Assistant RFC 2544 (SX LX SFP)	802.3 LAN 802.11a/b/g WLAN, ITO/
ES2-LAN	EtherScope Series II Network Assistant	802.3 LAN
ES2-WLAN	EtherScope Series II Network Assistant	802.11a/b/g WLAN
ES2-PRO	EtherScope Series II Network Assistant	802.3 LAN 802.11a/b/g WLAN
ES-LAN-OPT		802.3 LAN
ES-WLAN-OPT		802.11a/b/g WLAN , PCMCIA
ES-ITO-OPT	ITO/RFC2544, Service Performance,	, RFC2544
ES2-SX-OPT		, SX SFP (II)
MT-8200-63A	IntelliTone 200	
DSP-FTK		
LRPRO-REFLECT	Re ector	LinkRunner Pro
ES-ACCY-KIT		: LION , ,



OptiView® Series III INA



WAN, WLAN, VLAN VoIP

OSI
, SNMP RMON2

OPVS3-GIG	OptiView Series III Integrated Network Analyzer		
OPVS3-GIG/W	OptiView Series III Integrated Network Analyzer Pro		OPV-WNA4
OPVS3-GIG/S	OptiView Series III	OPVS3-ATE, OPVS2-VOIP	OPV-WNA4
OPVS3-GIG/RHD	OptiView Series III		
OPVS3-GIG/RHD/PSVS	Professional Vision Suite OPVS3-ATE	: OPVS3-GIG/RHD,	OPV-PE/PRO OPV-RPTR/PRO,
OPVS3-GIG/PSVS	Professional Vision Suite OPVS3-ATE	: OPVS3-GIG/RHD,	OPV-PE/PRO OPV-RPTR/PRO,
OPVS3-GIG/PSVS/W	Professional Vision Suite OPVS3-ATE OPV-WNA4	: OPVS3-GIG/RHD,	OPV-PE/PRO OPV-RPTR/PRO,
OPVS3-GIG/PSVS/S	Professional Vision Suite OPVS3-ATE, OPV-WNA4, OPVS2-VOIP	: OPVS3-GIG/RHD,	OPV-PE/PRO OPV-RPTR/PRO, AnalyzeAir
OPV-RPTR/PRO	OptiView Reporter Pro (40)		
OPV-RPTR	OptiView Reporter Pro (1)		
OPVS3-ATE			
OPVS3-WLIA	Wireless LAN		
OPVS3-IPV6			
OPVS2-VOIP	VoIP	OptiView Series II	Series III
OPV-WNA4	802.11 a/b/g/n		
OPVS3-WLESS	OptiView Wireless Suite AnalyzeAir	: OPV-WNA4,	InterpretAir WLAN Site Survey



OptiView® Series III WGA

OptiView Series III WGA -

SuperVision™,
III WGA

Network
OptiView Series
10/100/1000 Ethernet



SNMP,
VLAN

RMON2,



(1000BASE-T) (1000BASE-SX (), 1000BASE-LX, 1000BASE-LX10, 1000BASE-ZX)



8

OPVS3-WGA/GIG	OptiView Series III WGA (1000BASE-SX)
OPVS3-WGA/GIG/ DSVS	Distributed Vision Suite : OPVS3-WGA/GIG, OPV-PE/PRO OPV-RPTR/PRO
OPV-RPTR/PRO	OptiView Reporter Pro (40)
OPV-RPTR	OptiView Reporter (1)
OPVS3-WLIA	
OPVS3-IPV6	IPv6



OptiView

OptiView INA WGA

OPV-SFP-SX	1000BASE-SX SFP: 850 , 50 62.5 ,
OPV-SFP-LX	1000BASE-LX SFP: 1300 , 10 , 0
OPV-SFP-LX10	1000BASE-LX10 SFP: 1300 , 10 , 0
OPV-SFP-LX	1000BASE-LX SFP: 1510 , 10 , 0
NFC Kit-Case	

OptiView INA

OPVS2-BP	
OPVS2-KB	USB
OPV-FT600	OptiView
OPV-HCASE	
OPVS3-RHD	OPVS3-GIG/RHD
OPVS3-RHD/4	OPVS3-GIG/RHD



AnalyzeAir™ Wi-Fi

. AnalyzeAir
2,4 5
Wi-Fi
802.11a/b/g/n WLAN

Device Finder

OptiView INA



ANALYZEAIR	AnalyzeAir, AnalyzeAir Wi-Fi : PCMCIA
IA-AA	WLAN Site Survey Wi-Fi AnalyzeAir : InterpretAir



InterpretAir™ WLAN Site Survey

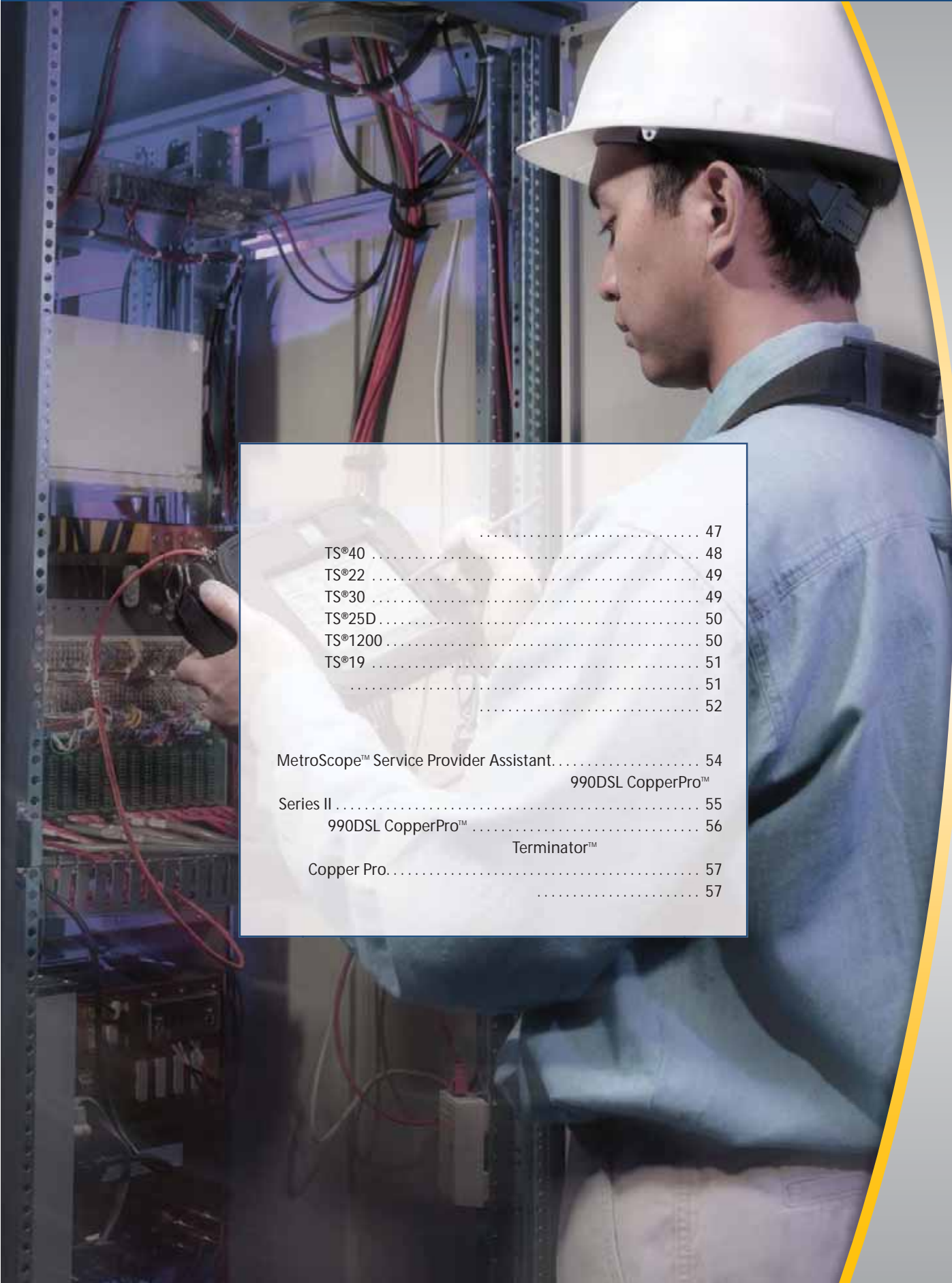
InterpretAir WLAN Site Survey –
. InterpretAir

. InterpretAir

RF Health



INTAIR-LAP	
Suites	
IA-AA	WLAN Site Survey Wi-Fi AnalyzeAir : InterpretAir



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Fluke Networks

fe™

DropSafe™

RainSafe™

DataSa-

(E1, ISDN, xDSL . . .)

TS®44 PRO

TS®19



	TS®44 PRO	TS®42DLX	TS®22A	TS®22	TS®25D	TS®30 / TS®120*	TS®19
режим DataSafe для	†	†			†		
режим DataSafe для	†	†	†		†	†	†
- Data lockout	†				†		
Data lockout	†				†		
DSL/ТФОП	†	†			†		
Индикация высокого/	†	†			†		
()	†	†			†		
	†	†	†	†	†	†	
	†	†	†	†	†	†	
	†	†	†		†		
	†	†	†	†	†		
	†	†	†	†	†	†	†
	†	†					
RainSafe	†	†	†	†		†	
DropSafe – падение с 6	†	†	†	†		†	
Bellcore	†	†	†	†		†	
	†	†	†	†	†	†	†
	†	†	†	†	†	†	†
PBX pause	†	†	†	†	†		
18-	†	†	†	†	†		
9	†	†	†	†	†		



TS®40

TS40

DropSafe™,

DataSafe™,

TS40

MIL-STD-810E.
DataSafe



DataSafe

/

DropSafe™ -

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DSL/

50801001	TS44 PRO	PP	
50801009	TS44 PRO	ABN/PP	
50801RJ9	TS44 PRO	ABN/PP	RJ11
42801001	TS42 DLX	PP	
42801009	TS42 DLX	ABN	

Посетите www.flukenetworks.com/EON

Fluke Networks.





TS[®]22

TS22

18

DTMF,

RainSafe

DropSafe.

‡ TS[®]22

‡ TS[®]22A

‡ DropSafe -

6

‡ RainSafe

‡ 18-

22801009	TS22A	ABN
22801007	TS22A	
22801001	TS22A	PP
22800009	TS22	ABN
22800007	TS22	
22800001	TS22 c	PP



TS[®]30

TS30

DataSafe

‡ DataSafe

‡ DropSafe - 6

‡ RainSafe

‡ Mute

‡

30800009	TS30	ABN
30800001	TS30	PP



TS[®]25D

TS25D

DSL/

Talk Battery



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3

Caller ID Call Waiting Caller ID

4

5

6

7

8

Talk battery

25501109	TS25D	ABN ()
25501009	TS25D	ABN
25500400	TS25D	
25500300		TS25D



TS[®]1200 ADSL/POTS

TS1200 ADSL/POTS

ADSL,

DataSafe,

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ADSL -
ADSL:
90

25800019	TS1200 ADSL/POTS	ABN
25800119	TS1200 ADSL/POTS	ABN
25800124	TS1200 ADSL/POTS	Combi
P2583019	TS1200	ABN
P2583119	TS1200	ABN



TS[®]19

TS19

- DataSafe.



DataSafe

19800009	TS19	ABN	
19800003	TS19	Banana - "	"



4-



10210100		4	
10220100		6	
10230100		8	



4-

10113000		, 4	



P4480-009	P4480-001	P4480-004	P4480RJ9	P3218-024	P3218-028
ABN - " "	PP - " "	346A	ABN RJ11	ABN - " "	PP - " "
TS40	TS40	TS40	TS40	TS20	TS20
P3218-231	P3218-232	P3218-234	P3080-009	P1980-001	P1980-003
	346A	ABN - " "	ABN " "	PP - " "	Banana -
TS20	TS20	TS20	TS30	TS19	TS19
P1980-007	P1980-009	P3218-124	P3218-125	P3218-442	P2280-063
	ABN - " "	A - 471 RJ11	A - 471 310	A - 471 PP	
TS19	TS19	346A	346A	346A	P3218-441 P1980-007
					P3218-418 (10) P3218-419 (10) P3218-420 (10)
P3218-200	P3218-202	P4080-248	P4080-249	P3218-249	
" "	" "			TS	
		TS40	TS40	19, 20, 30	

Carrier Ethernet, xDSL и специальных сервисов



Carrier Ethernet, xDSL, IP, ADSL2/2+, VDSL

▶▶ MetroScope™ Service Provider Assistant



- ▶ MetroScope - Carrier Ethernet (10/100/1000) ProVision™ - ProVision, RFC 2544 BERT.
- ▶ Re ector
- ▶ 40%.
- ▶ Re ector
- ▶ VoIP
- ▶ VoIP
- ▶ web
- ▶ Wi-Fi
- ▶ VGA
- ▶ VoIP
- ▶ VGA
- ▶ 802.11a/b/g
- ▶ VGA кей, удаленный эн.
- ▶ MetroScope кей
- ▶ тройств



MTSCOPE-KIT	SFP, MetroScope Kit Li-Ion, 128 10/100/1000BASE-T	:	MetroScope M Compact Flash, CD,	10/100/1000BASE-T 1000BASE-X LinkRe ector
MTSCOPE	SFP, MetroScope Li-Ion, CD,	:	MetroScope 128 Compact Flash,	10/100/1000BASE-T 1000BASE-X
MTSCOPE-LT	SFP, MetroScope Li-Ion, CD,	:	MetroScope 128 Compact Flash,	10/100/1000BASE-T 1000BASE-X
LRPRO-REFLECT	LinkRunner™ Pro Re ector			
GLD-MTSCOPE	Gold 1			
MS-VOIP	VoIP VoIP MetroScope ()			
MS-WLAN-OPT	Fluke Networks 802.11/a/b/g,			
LRPRO-REFLECT-OPT	Re ector LinkRunner Pro			
MS-MULTI-LT	MetroScope-LT			
OPVS-KB	USB			
ES-BATTERY				
ES2-ZX	SFP 1000BASE-ZX DDM (1550nm DFP)			
MS-SX	SFP 1000BASE-SX DDM			
MS-LX	SFP 1000BASE-LX DDM			
MS-100FX	SFP 100BASE-FX (DDM)			
LRPRO-LION	Li-ON LinkRunner Pro			
MS-BAG	MetroScope			



Pro™ Series II

CopperPro Series II

ADSL, ADSL2/2+, VDSL

VDSL,

990DSL Copper-

ADSLx VDSL

DSL

ADSL,



ADSL2, ADSL2+, VDSL, HDSL, T1

CopperPro Series II

POTS Auto-Test



TDR Auto-Test



990DSL2+	CopperPro	TDR	ADSL2+
990VDSL	CopperPro	TDR	VDSL
990TL-SB/RF		990DSL2+	990VDSL
990-GM/V-2	ADSL, ADSL2, ADSL2+, VDSL2		CopperPro Series II



990DSL CopperPro™

CopperPro

ADSL, HDSL HDSL2, ISDN, T1, E1 DDS.

CopperPro

. CopperPro

‡

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(, ADSL)

:

990 DSL	CopperPro
990DSLWT	TDR
990TL-SB	(" ")
990-CASE	()
GLD-990DSL	Gold 1



Terminator™

CopperPro Fluke Networks

perPro, Terminator – 990DSL Cop-
 HDSL4, « / » xDSL AutoTest
 – ISDN, ADSL, VDSL, ADSL2, ADSL2+, HDSL, HDSL2,
 (VF Noise), (VF Loss)
 (VF Long. Balance).

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990DSL CopperPro -

TN2100	TN2100 (1.1)
TN-LEADS-B	(" ")



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2000

C9970	
C9973	Voltage Detector kit
C9974	Voltage Detector kit

Fluke Networks

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▶▶ Fluke Networks



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Fluke Networks
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Fluke Networks
NetDSL

. NetDSL

ADSL VDSL




MetroScope, CopperPro NetTech

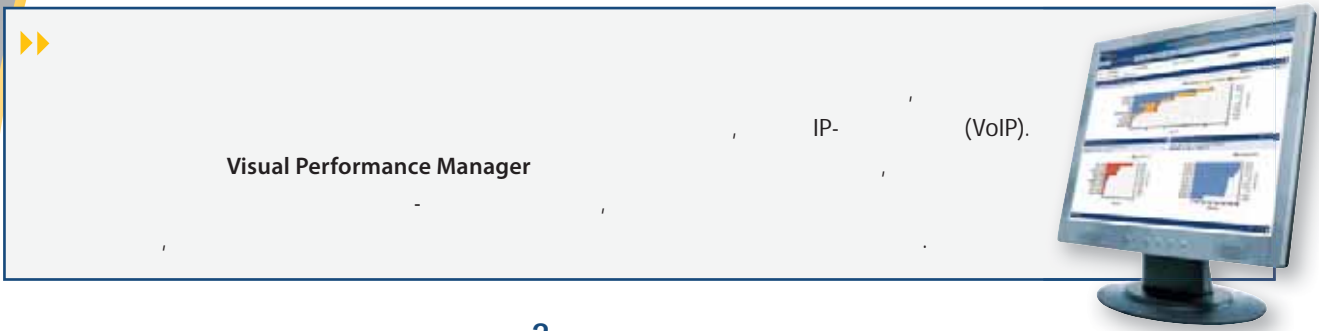
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Fluke Networks.
, Fluke Networks

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‡ 6SHSD @W6E>	‡
‡ 5abbW6Bcb	‡
‡ 5abbW6Bcb Ew6E>; H6E>	‡
ADSL2/ADSL2+	‡
‡ @WFWZ	‡ ? W6EUBW5ScdW6
‡	Ethernet





Visual Performance Manager

IP- (VoIP).

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VoIP,

Cisco, Fluke Networks

Cisco

Fluke Networks

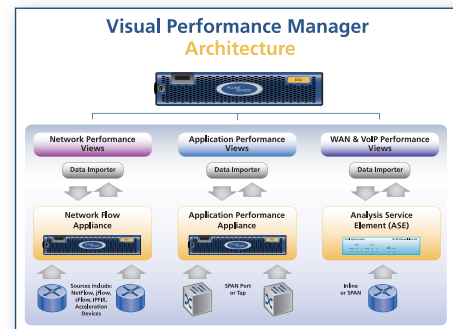
Cisco

Cisco IOS,

NetFlow, IP SLA Performance Routing (PFR).

IP- (NetFlow Tracker, NetAllly, PFR Manager)

Visual Performance Manager



Архитектура Visual Performance Managers

Visual Performance Manager

Visual Performance Manager

, VoIP

VoIP:

VoIP

VoIP

www.flukenetworks.com/vpm.

▶▶

Gold Fluke Networks

24/7/365,

Gold Fluke Networks

Gold

Fluke Networks

Fluke Networks

Gold,

www.flukenetworks.com/goldsupport.

▶▶

Gold

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Fluke Networks.

www.flukenetworks.com/training.

Fluke Networks

Fluke Networks

BICSI

www.flukenetworks.com/training

Fluke Networks

- Certified Cabling Test Technician (CCTT).
(CCTT) Fluke Networks



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4;5E;





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