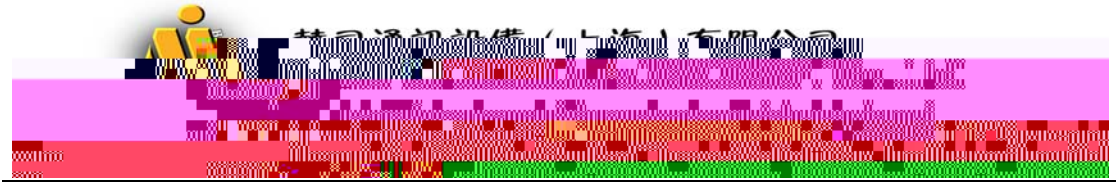
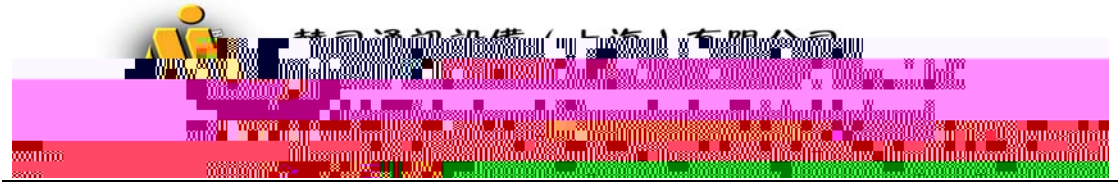


DSPX-AM

www.bwbroadcast.com



BW Broadcast	(2)	
山		/
BW Broadcast	山	28



BW Broadcast

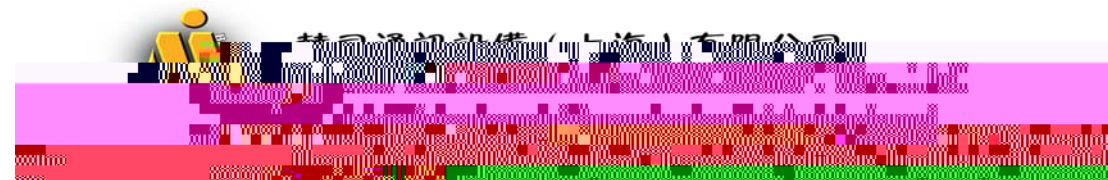


BW Broadcast



BW Broadcast





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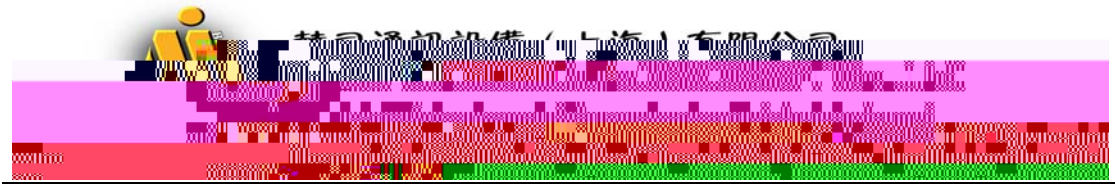
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К





3. DSPX

BW DSPX

AM

山

DSPX

山

DSP

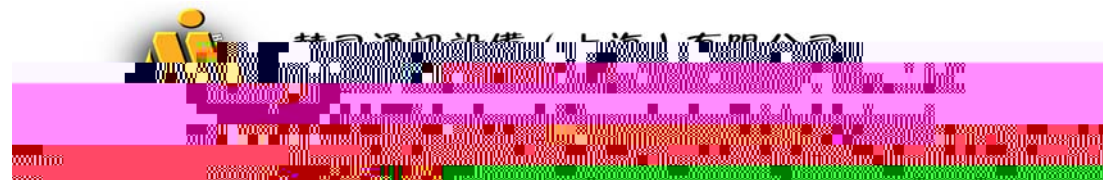
DSP

山

DSPX

山

DSPX



4. DSPX

DSPX 182 LED IO W

10

	W	DSP	W	LED	A/
D	LED	DSPX		W	

W

W

W

DSPX
LED's

LED

W

100%

IO PPM Σ

G/R

LED

W

DSPX W

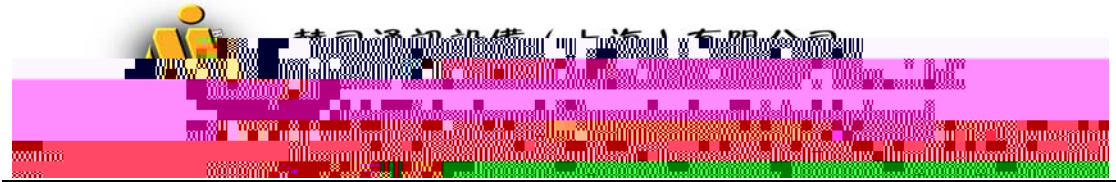
LEDS

DSPX 3 LED 山

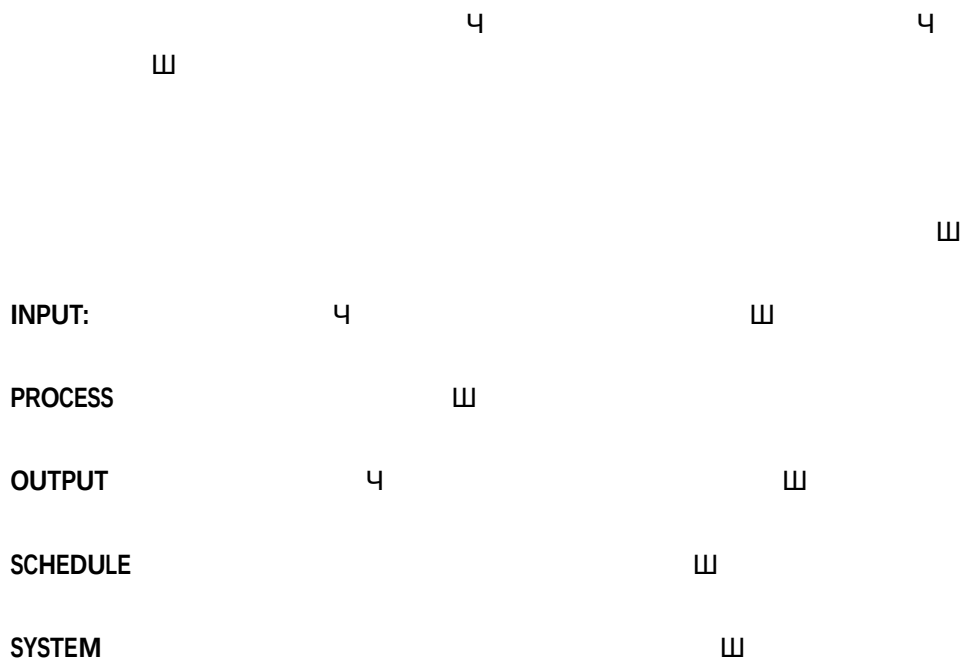
DSPX ▮ ▮

AES/EBU AES/EBU DSPX 山

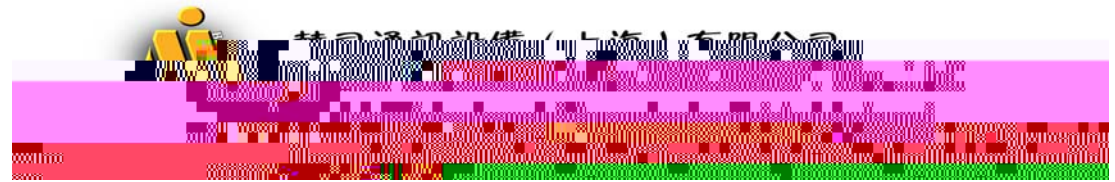
EDIT W



6.







1 4

LAN

IP

DG

SM

MA1(MAC 1)

MA1(MAC 2)

B1 2

B2 3

B2 3

B3 4

L/R

1

2

3

4

'INPUT'

山

'SOURCE'

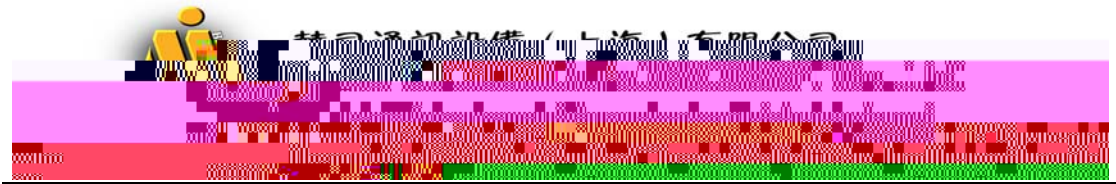
山

'INPUT MODE'

4 4

山

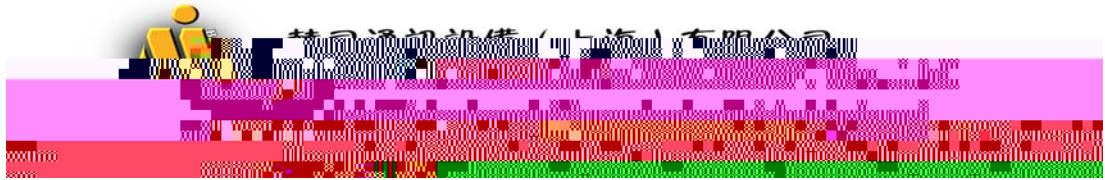
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'ANALOGUE INPT A/D CLIP LEVEL' DSPX A/D
+24dBu DSPX 12 AGC 0UV(+4dBu)
12dB

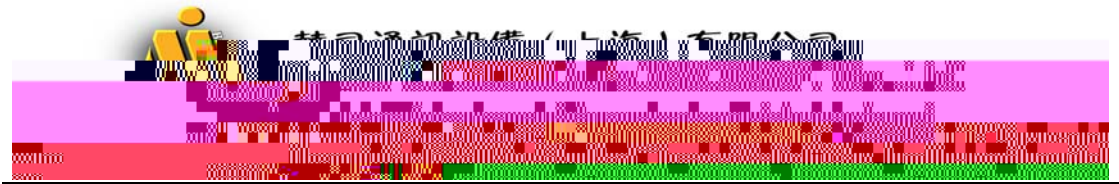
'DRIVE'	0	12	DSPX
0VU	12	12	
0	12	12	

'ATTACK' AGC 100 30 12 AGC 1 10
'DECAY' AGC 100 30 12 AGC 1 10
'RIGHT TRIM' 100 30 12 AGC 1 10
'GATE THRESHOLD' 10 20
'INPUT FAIL SWITCH' 10 20
RTR RTR 20
'HIGH PASS FILTER' 20Hz 430Hz 440Hz 450Hz
60Hz 30Hz
AM 30Hz
'PHASE ROTATOR'

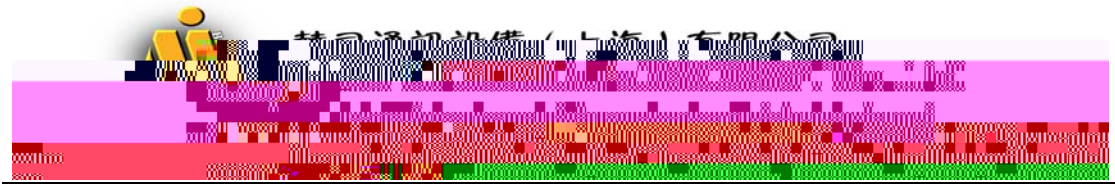


'RTR LEVEL'		LRTR	4dB 4 8dB 4 12dB 4
16dB	20dB	30	
	RTR	W	





'ATTACK'	AGC	AGC		100	30	100	1
10					30	100	
'DECAY'	AGC	AGC		100	30	100	1
10					30	100	
'GATE THRESHOLD'		10	10			100	20
40	40						



山

‘B4<3 COUPLING’

B3

B4

山

山

山30

山

‘L/R COUPLING’

山0%

山100%

山

山

‘MULTI BAND LIMITERS’

山

‘B1 4’

‘DRIVE’

山

12dB山

‘THRESHOLD’

山

山

山

6dB

+6dB

0.5dB山

‘PEAK ATTACK’

山

1

10

1

200

山

‘PEAK DECAY’

山

1 10

10

1000

山

‘AVG ATTACK’

山

山

1

10

/2

/1000山

山

‘AVG DECAY’

山

1

10

200

5000

山

‘HOLD THRESHOLD’ HOLD

IM

山

20dB

40dB

山HOLD

山

‘DELAY’

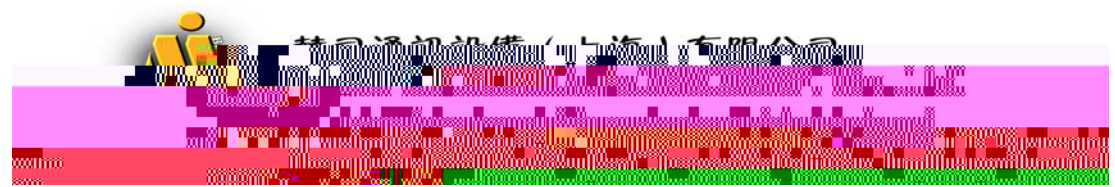
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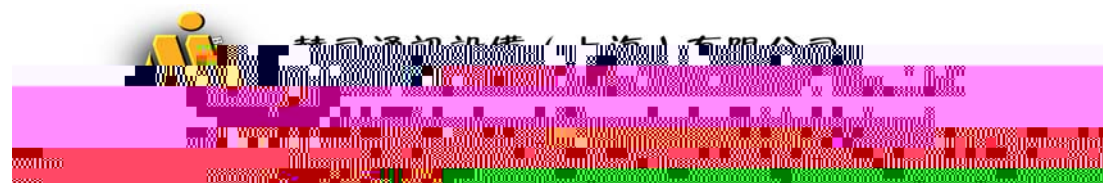
1

500

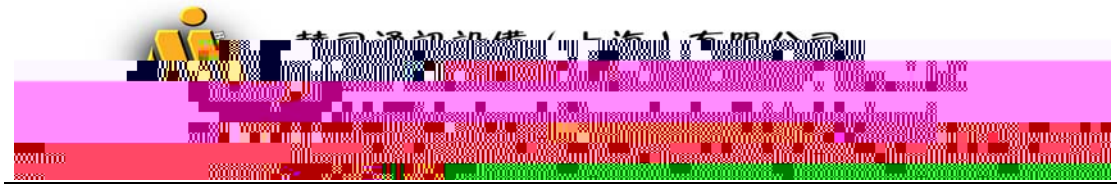
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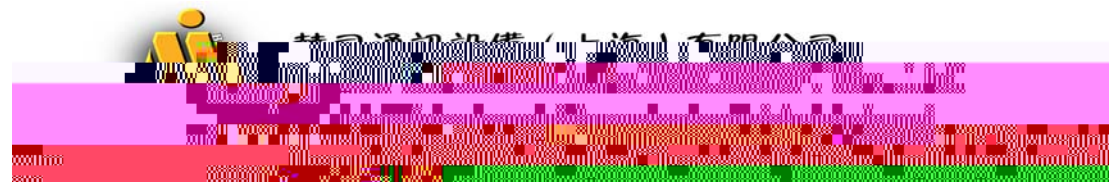
‘HF CLIPPING (BAND 4)’		4	4	AM
DR	⏏		⏏	
‘B1<2 COUPLING’		B1	B2	⏏
‘B2>3 COUPLING’		B3	B2	⏏
‘B2<3 COUPLING’		B2	B3	⏏
‘B3>4 COUPLING’		B4	B3	⏏
				⏏
		⏏30%	⏏	
‘L/R COUPLING’			⏏0%	
	⏏100%		⏏	
	⏏			
‘LIMITERS RATIO’		⏏	inf:1() 10:1	⏏
	⏏			
‘MIXER’	⏏		EQ ⏏	
			⏏	



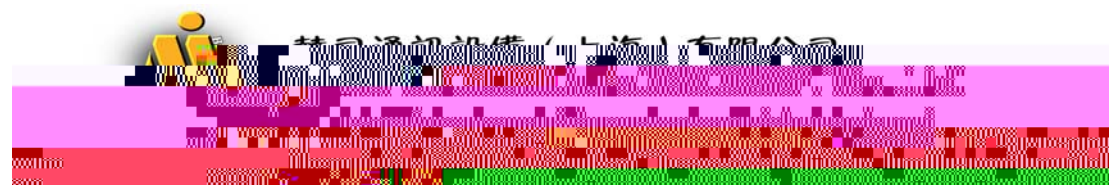
‘LOW ATTACK’	B1 2		10		10		2000		10		10	
	1	10										
‘LOW DECAY’	B1 2		10		10		2000		10		10	
	1	10										
‘MID ATTACK’	B3		10		10		2000		10		10	
	1	10										
‘MID DECAY’	B3		10		10		2000		10		10	
	1	10										
‘HIGH ATTACK’	B4		10		10		2000		10		10	
	1	10										
‘HIGH DECAY’	B4		10		10		2000		10		10	
	1	10										
‘CLIPPER’					DSPX	AM			10			
‘MULTI BAND CLIP DRIVE’							10					
‘BASS CLIP LEVEL’	1		2		10		6dB		0dB			
‘BASS CLIP MODE’											100%	
									5			
‘MID CLIP LEVEL’	3		10		12dB		0dB					
‘HF CLIP LEVEL’	4		10		12dB		0dB					
‘HF CLIPPING’	4		4		4		4		4		0	



'MAIN



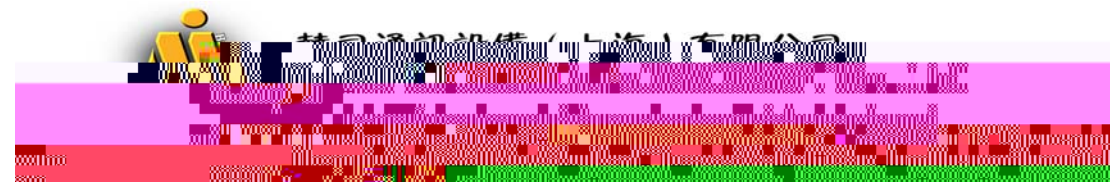
'HEADPHONE LEVEL'		0	25	
'TONE GENERATOR'		/		
'OSCILLATOR'				AM
'FREQUENCY'		/	50 4 100 4 200 4 400	1000 Hz
'AMPLITUDE'			100%	100%
		100%	10%	120%
'ANALOGUE OUTPUT LEVEL'			22 dBu	+14 dBu
OUTPUT				
'DIGITAL'		AES/EBU		
'MODE'			AM	DR
'DIGITAL OUTPUT LEVEL'			12dBfs	0dBfs
'SAMPLE RATE'		AES/EBU		32 44.1 48 kHz
'SCHEDULE'				
'TIME'		DSPX		
'DAYPARTING ON/OFF'				
'DP(X) ON/OFF'				
'DP(X)'				
'DP(X) START'				



'LED CONTRAST'			⏏	1/4 4 1/2 4 3/4	⏏	
'TRIGGER PORT'					⏏	⏏
		⏏				
'CODE LOCK'			⏏		⏏	
		⏏				
'REMOTE SOURCE'				NET/LAN	⏏	Off ⏏
'LAN CONFIG'		LAN/NET		⏏		
'IP'	LAN	IP	⏏			
'DG'	LAN		⏏			
'SM'	LAN		⏏			
'MA1'	LAN		MAC	⏏		
'MA2'	LAN		MAC	⏏		
'PORT'	LAN		⏏			
'ABOUT'			⏏			
'BOOTLOAD'				DSPX	⏏	
		⏏				

DSPX

DSPX	⏏	DSPX	⏏
	⏏	AM	AM
AFC		⏏	
	⏏	DSPX	
	⏏		



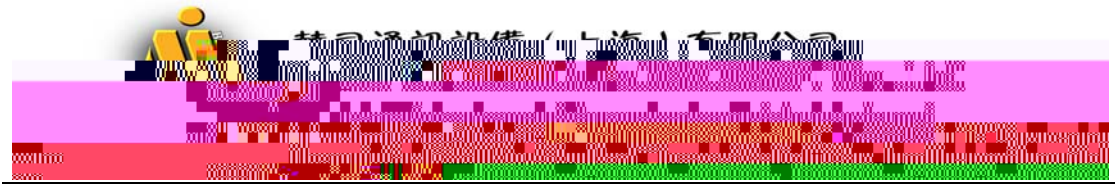
AM
1 AGC
50 Hz

山

山

山

20 Hz



16 dB 4 20 dB 30 4 dB 48 dB 4 12 dB 4

AGC 30 30

AGC RTR 32 32

1 4 2 4 4 4 8 4 16 32 1 4 8 32

AGC 4 32

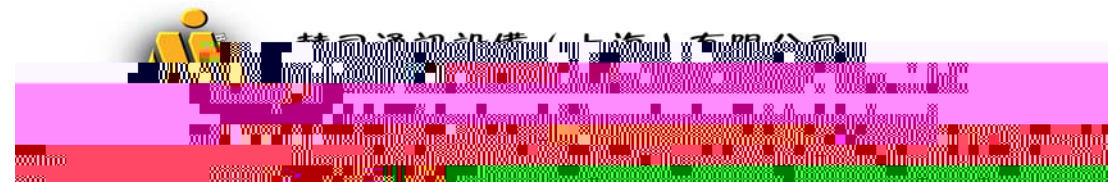
AGC 32

AGC 32

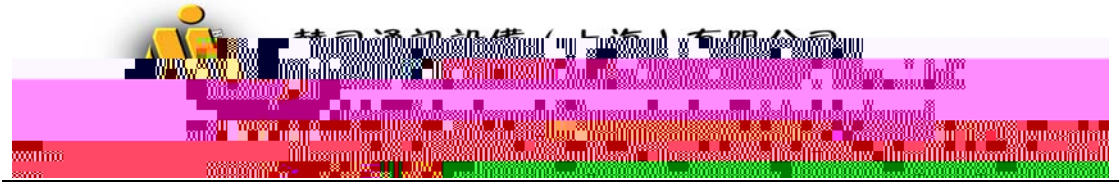
dB 4 2 dB 4 3 dB 'OFF' 1

AGC 1

AGC 1



AGC 山



20 dB

B4 AGC

W

W

W

AM

W

Xover

DSPX Xover

FIR

W

150 Hz 4720

Hz 3 Hz

W DSPX

DSPX

DSPX

W

W

W

W

AGC

DSPX

AGC

AGC

Xover 4

W

AGC

AGC

W

AGC

AGC

W

W

DSPX

AGC

1.

W

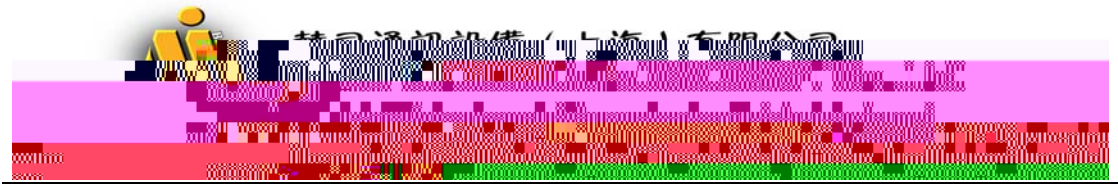
2.

W

RMS

AGC

Y



Ш

Ш P32

Ч

Ш

Ш

Ч

Ш

Ш

1

10

1

200

Ш
1000

Ш

1

10

10

Ш

Ш

Ш

Ш

P33

Ш

Ш

Ш

Hold

AGC

Ш

Ш

IM

Ш

Ш

-20dB

-40dB

OFF

Ш

-32dB

Ш

Ш

P33

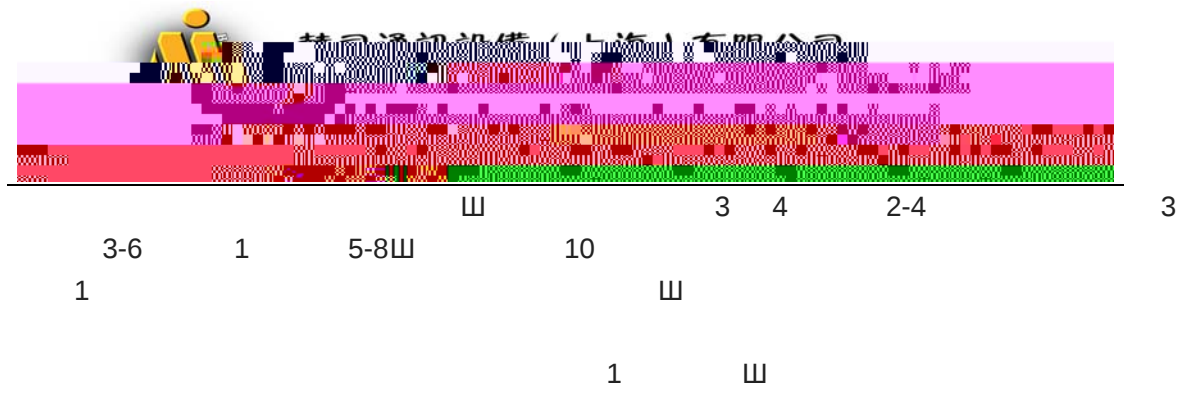
Delay

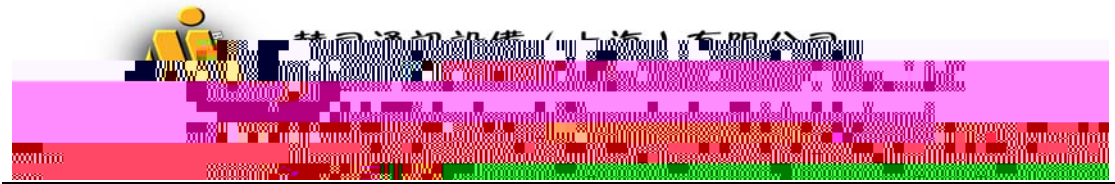
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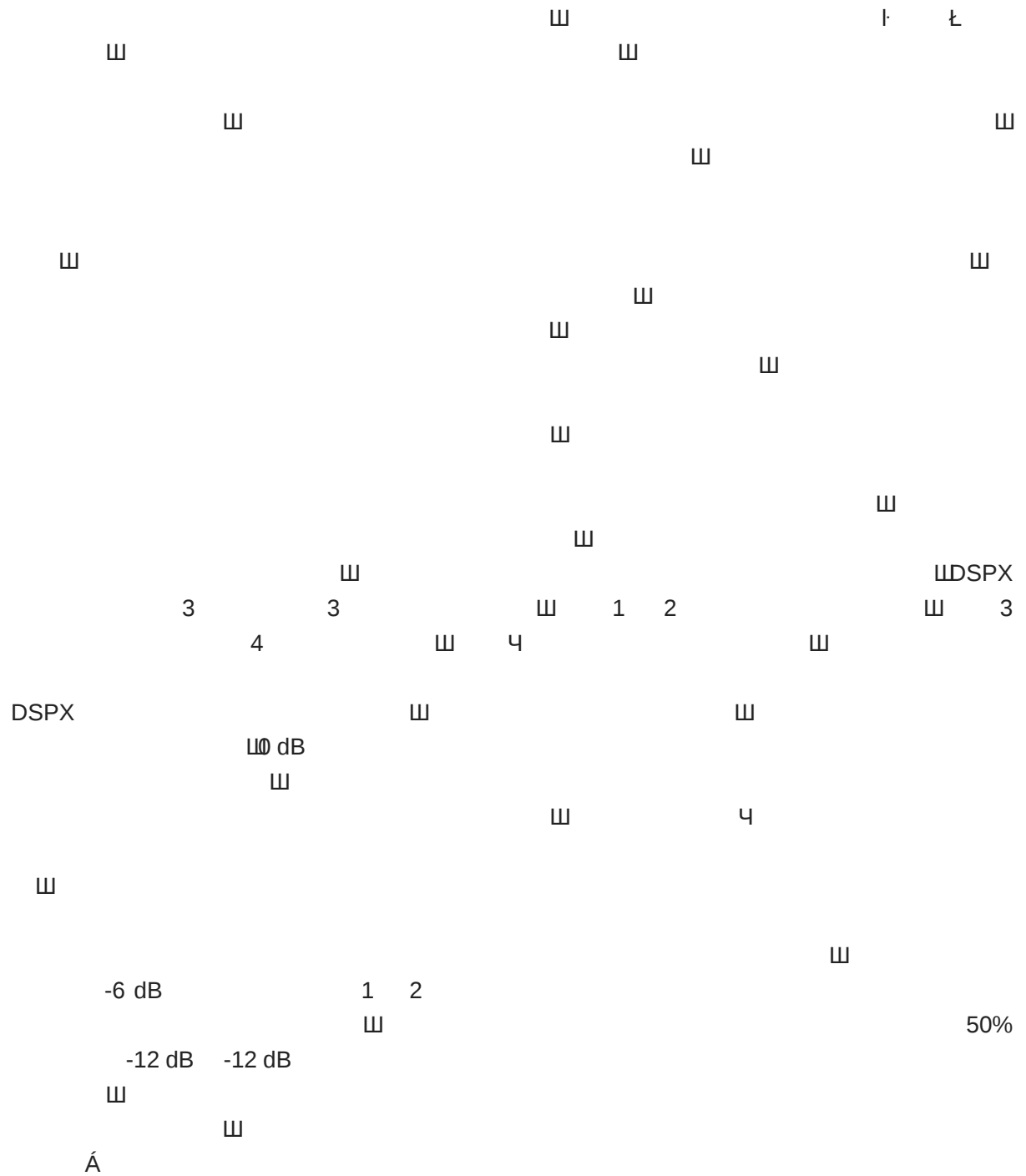
1

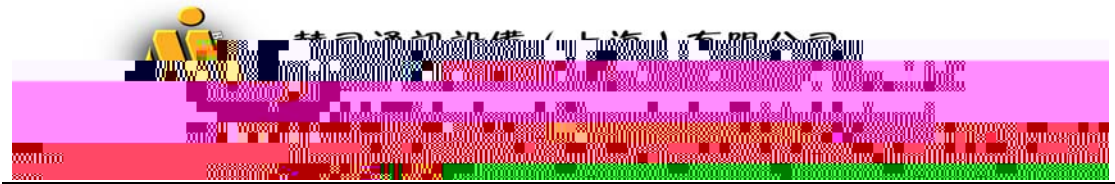
Ш





The multi-band clipper





IM

IM

IM

IM

IM

IM

IM

IM

IM

IM

DSPX

IM

"SOFT"

IM

IM

IM

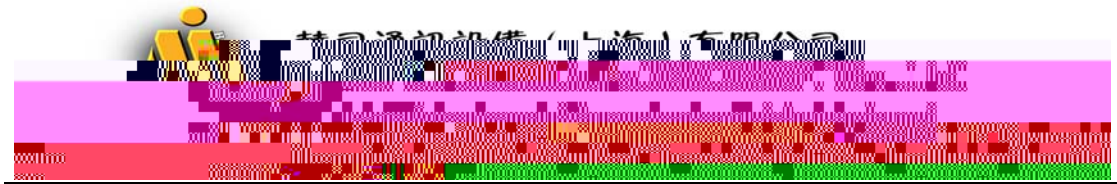
DSPX

IM

IM

100%

IM



IMD

W

W

W

W

W

W

Lookahead limiter

DSPX

DR

W

W DSPX

3

W

3

W

DSPX

W

W

1

1

W

W

+/- 6 dB

W

0 dB

W

IM

W

W

4

W

10 4

1 W

W

IM

W

W

W

W

W DSPX

W

DR

W

W

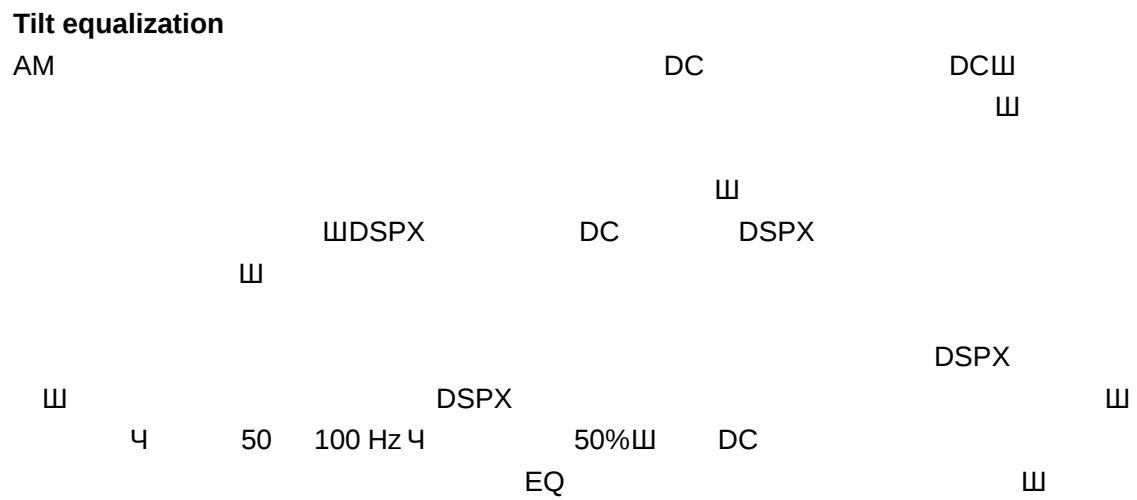
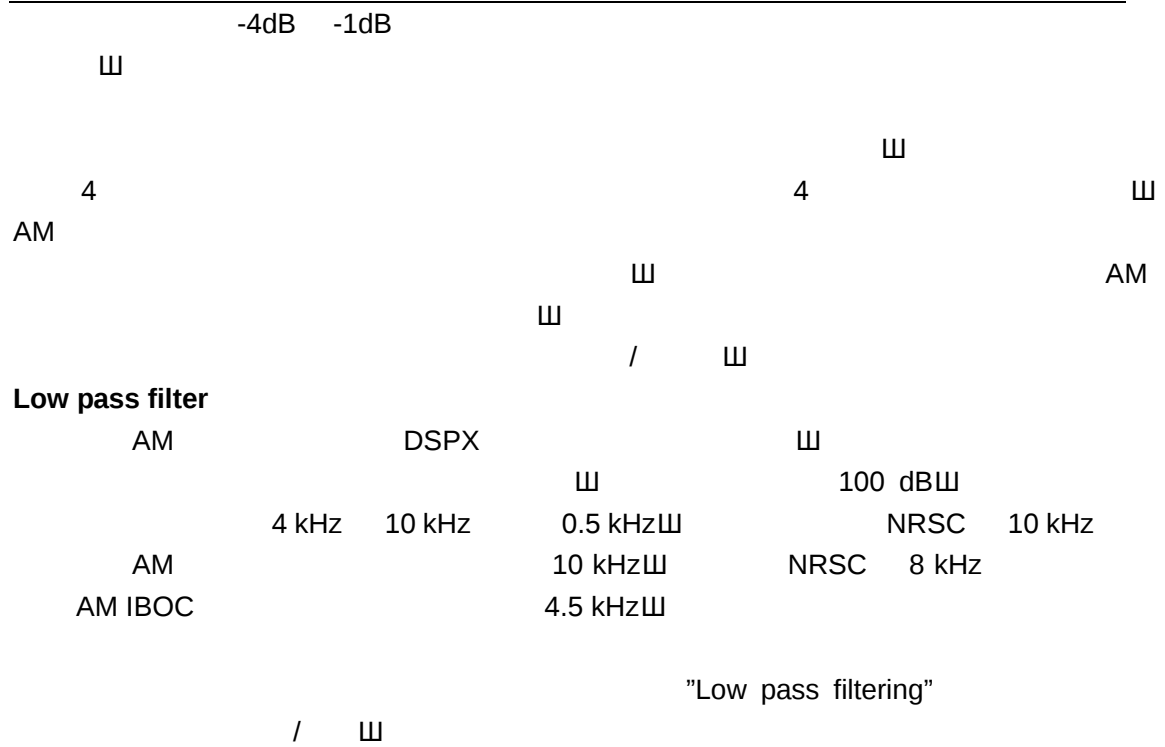
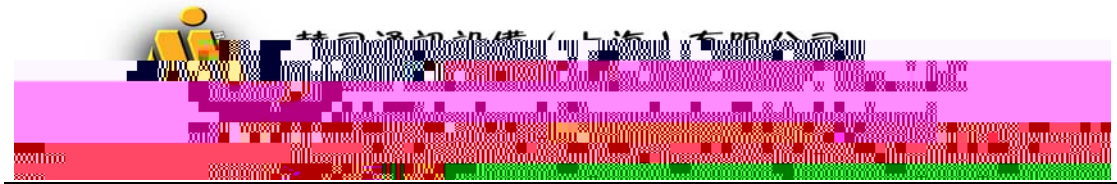
W

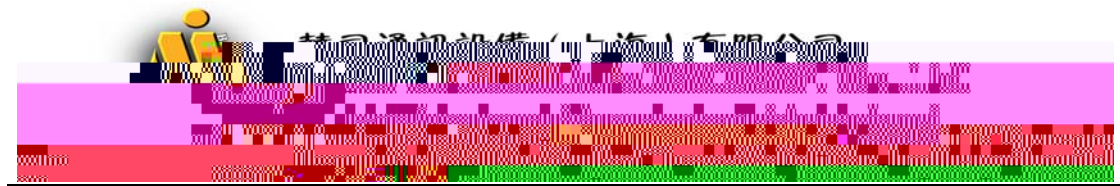
DR

W

0 -17 dB

W





100%

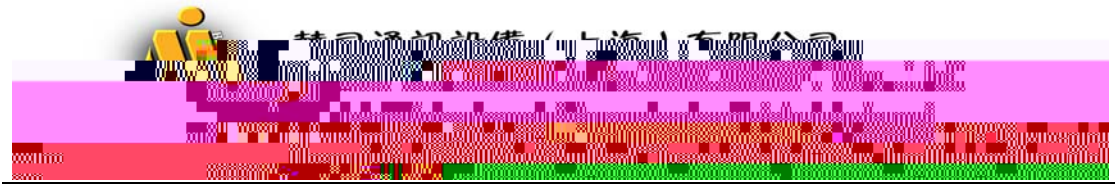
150%山

100%

DC

山

DC



W

W

Final clippers: (AM USE)

W

W

4 4

W

W

W

W

Look-ahead limiter: (DR USE)

W

W

W

W

W

W

W

More BASS

W

EQ:

W

W

W

Multi-band AGC:

1 AGC

W

1 AGC

W

1 AGC

W

1

W

1

W

1

1

1 AGC

1

AGC W

B1<2

1

2

W

Multi-band Limiters:

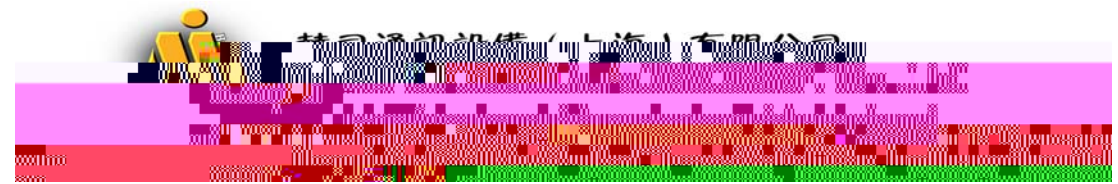
1

W

1

W





'A' 'UP'

'LOAD'

W

W

W

W

W

W

Saving a preset

P43 2

'SAVE' W

'GO' W

W'INSERT' 'DELETE'

W

'DONE'

W

3

'SAVE'

'GO'

'DONE'

W

Exporting a preset to a PC

W

Importing a preset from a PC

W

FACTORY PRESETS

DSPX

W

W

BW

W

W

1.00

W

AM PRESETS

AM

W

F1 BYPASS

AGC

W

DSPX

W

F2 GENERAL

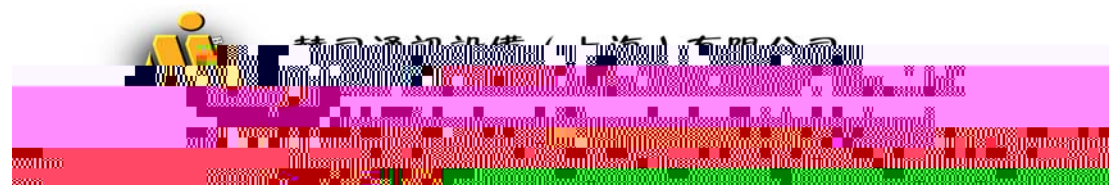
W

F3 GENERAL HEAVY

4

W

W



F4 TALK



F5 TALK HEAVY



F6 MUSIC OPEN



F7 MUSIC MEDIUM



F8 MUSIC HEAVY



F9 NEWS



AGC



F10 SPORTS



F11 CLASSICAL-JAZZ



F12 LOUD



HD RADIO PRESETS

(HD /DRM)



F13 HD RADIO BASS



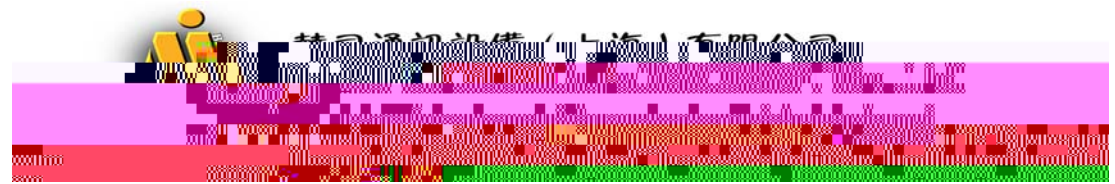
F14 HD RADIO GENERAL



F15 HD RADIO NATURAL



DSPX



LCD DSPX USB /LAN

DSPX windows PC

www.bwbroadcast.com

DSPX USB USB/ DSPX USB DSPX

(VCP) USB

USB DSPX VCP

A

lan DSPX USB

USB DSPX

P45

DSPX (RS232/USB) /LAN

DSPX

IP DSPX

DSPX BW IP 1203

P46

CONTROL OF THE DSPX BY RS232 or USB (SERIAL)

RS232 USB DSPX

1. RS232 USB

2. RS232 USB

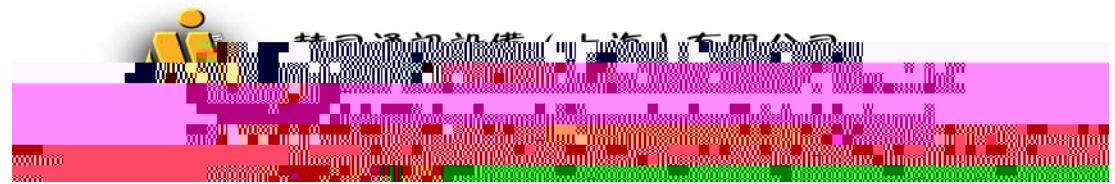
3. DSPX COM USB

4. DSPX DSPX

5. 'please wait' DSPX

DSPX DSPX 3779

NET/LAN PORT



DSPX

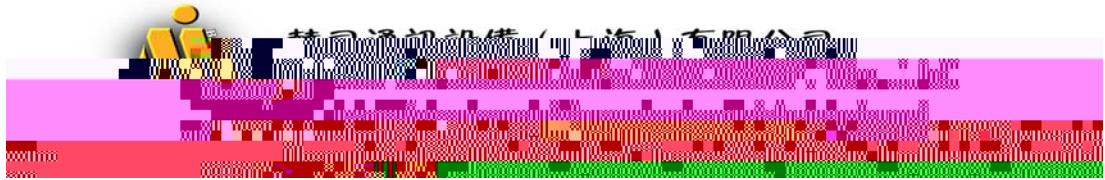
NET/LAN

4

山

CONTROL OF THE DSPX BY THE NET/LAN PORT

	NET/LAN	DSPX	
1.	5	DSPX	RJ45 /



P48

DSPX

4

W

W

DSPX

W

U1

U8

F1

W

W

4

W

1

2

W

W

(DEF), (TR), (DP)

4

W

1

2

(DEF)

W

(DEF)

W

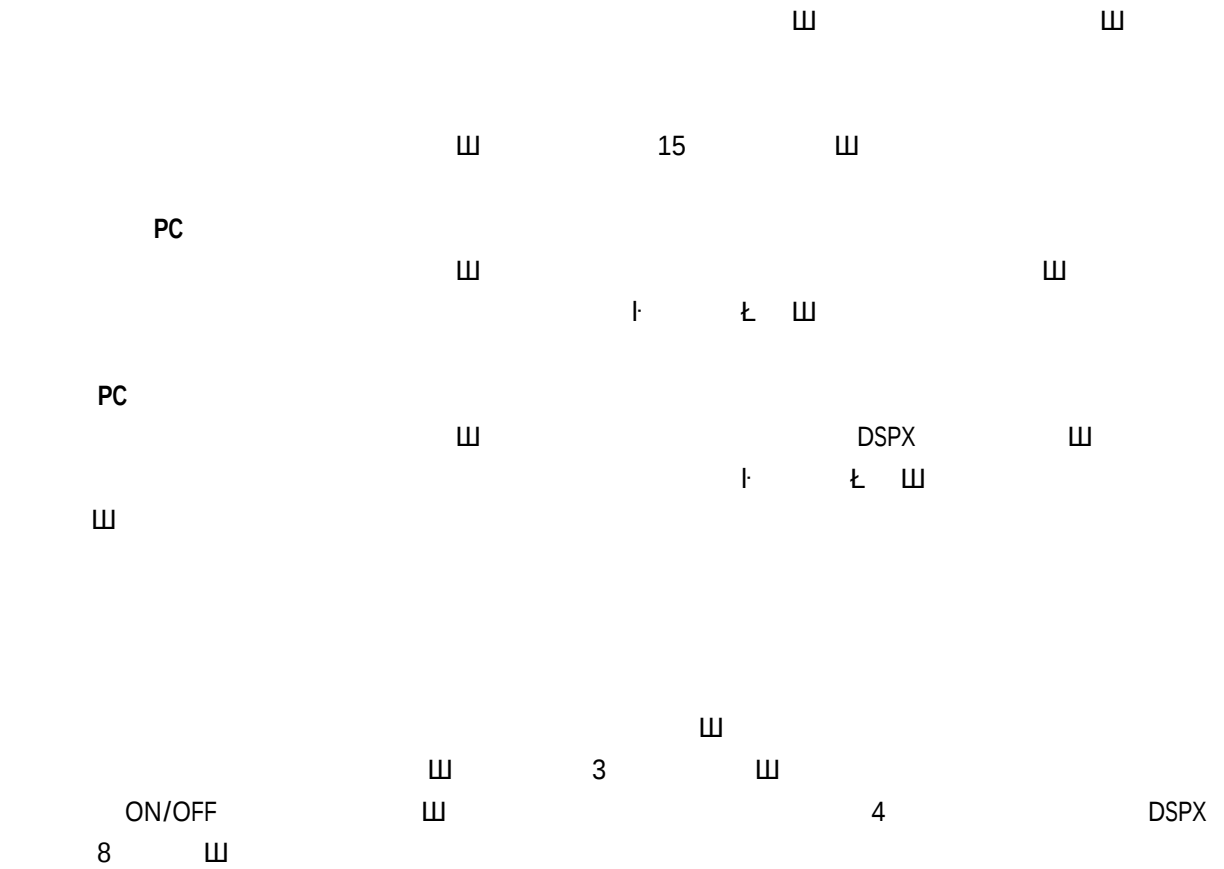
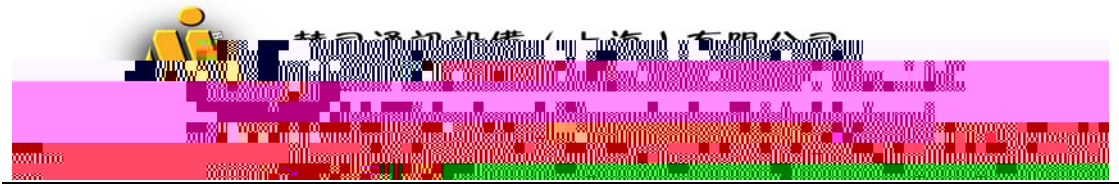
W

(DP)

(TR)W

(1dd1TT9 7e5 -1420c77a131aa10 /TTD <3e7f11db4TT4 7702c87e5 -1428 1 Tf 2fa

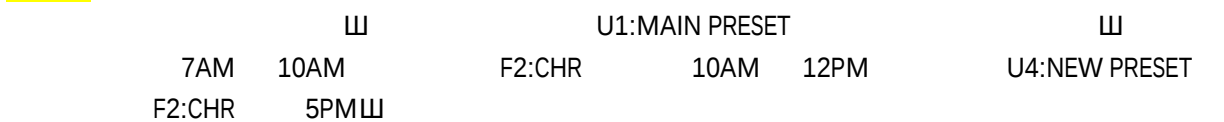




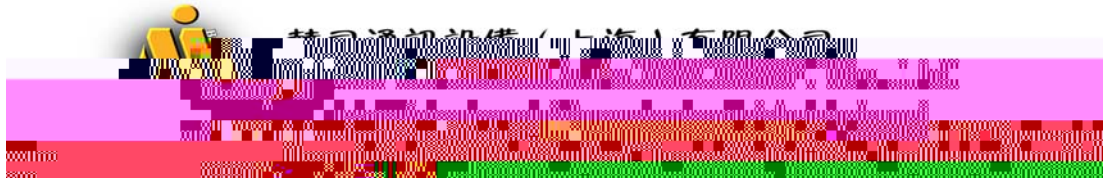
P50 1



P50 2



DPO: F2:CHR ALL 07:00 03:00 (2 7AM 3)
DP1: U4:NEW PRESET – ALL 10:00 – 02:00 (4 10AM 2)
DP3: F2:CHR ALL 12:00 05 :00 (2 12AM 5)



DPO: F2:CHR ALL 07:00 10:00 (2 7AM 10)
DP1: U4:NEW PRESET – ALL 10:00 – 02:00 (4 10AM 2)
W

W

A/B

A B W
W
W B W
W
A I W W
W

A/B

W W
W

W

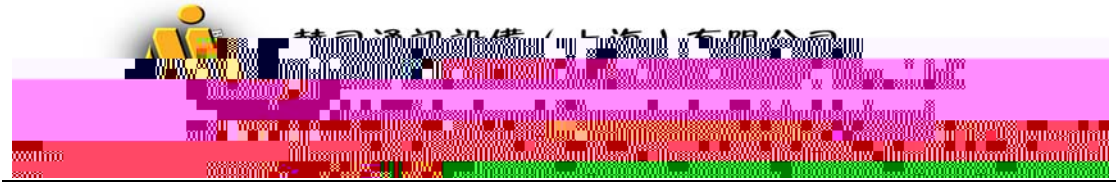
8
9 D W

P52

8 W
8 W
W
W 1 W
W 1 W
W

4 4 W

W



山

DSPX 山 DSPX 山

DSPX 山

山

山

4 DSPX 山

DSPX 3779 山 山 0000 山

3779 山

山

4 山

山

山

山

山

DSPX 山 DSPX 山

GO 山 DSPX 山

山 DSPX 山