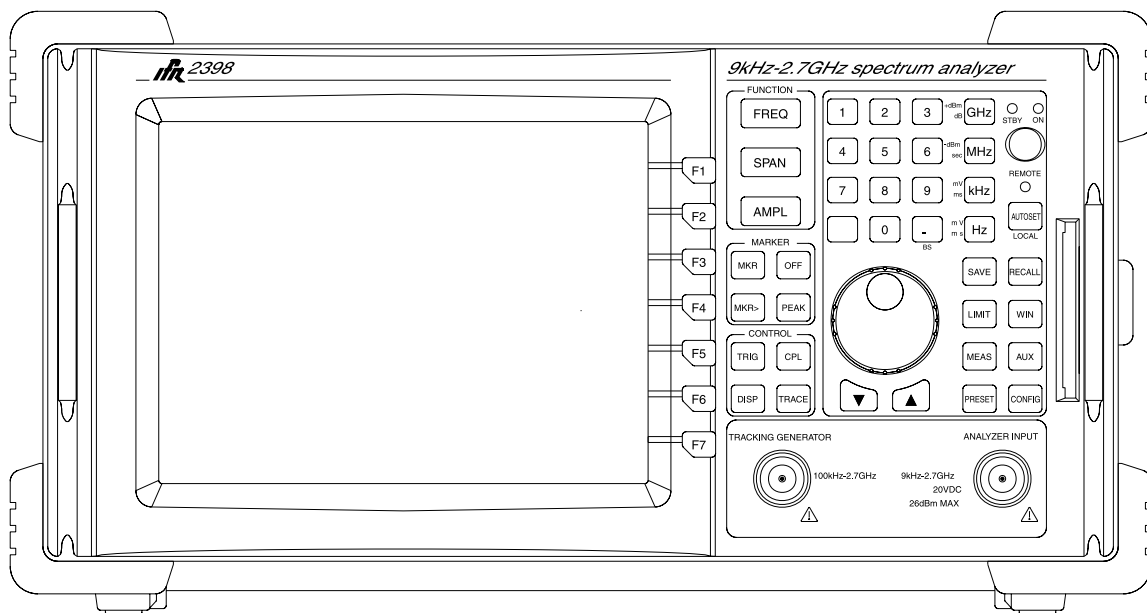




Spectrum Analyzer

2398



Programming Manual

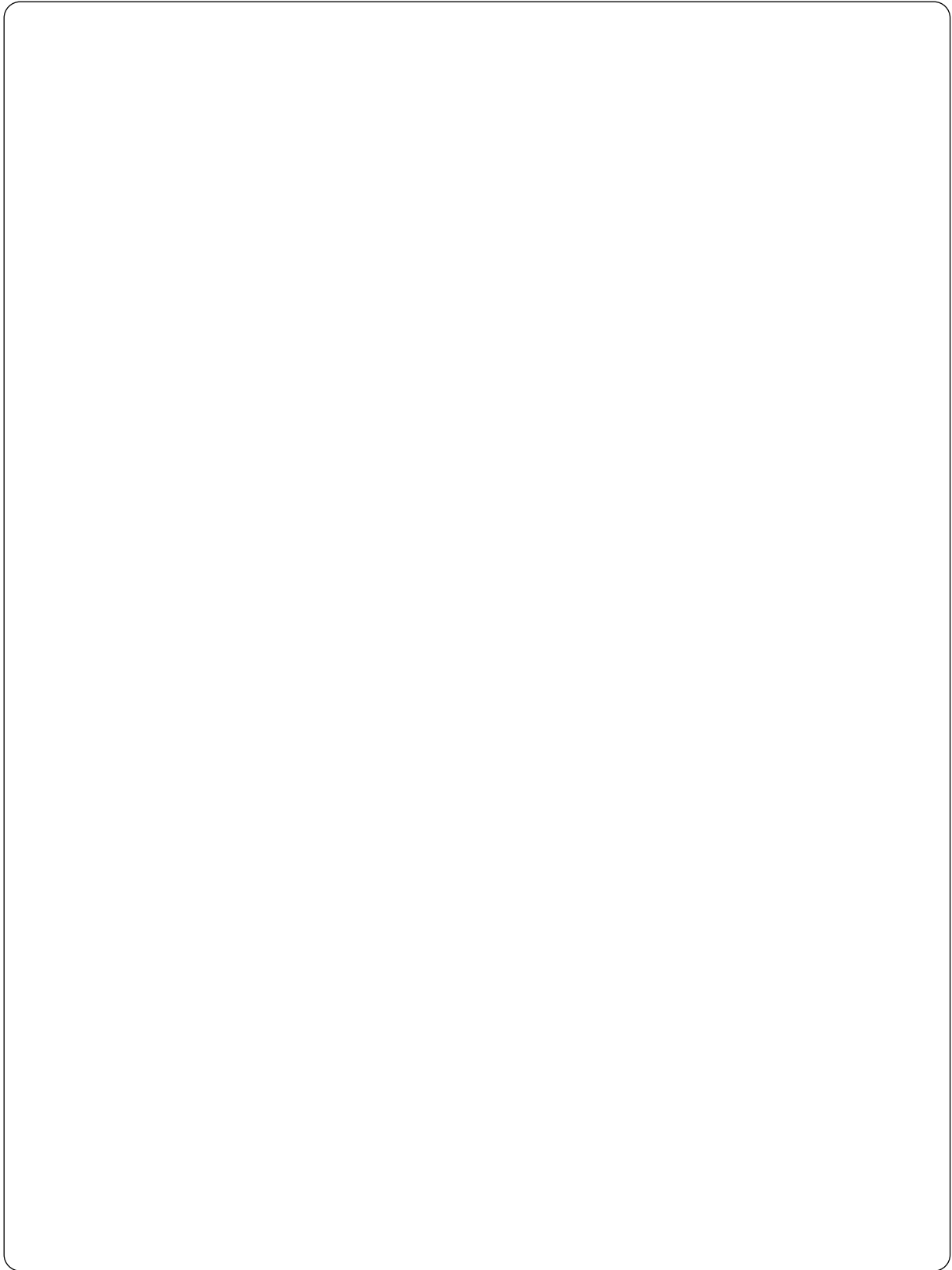
2398
Spectrum Analyzer
Programming Manual

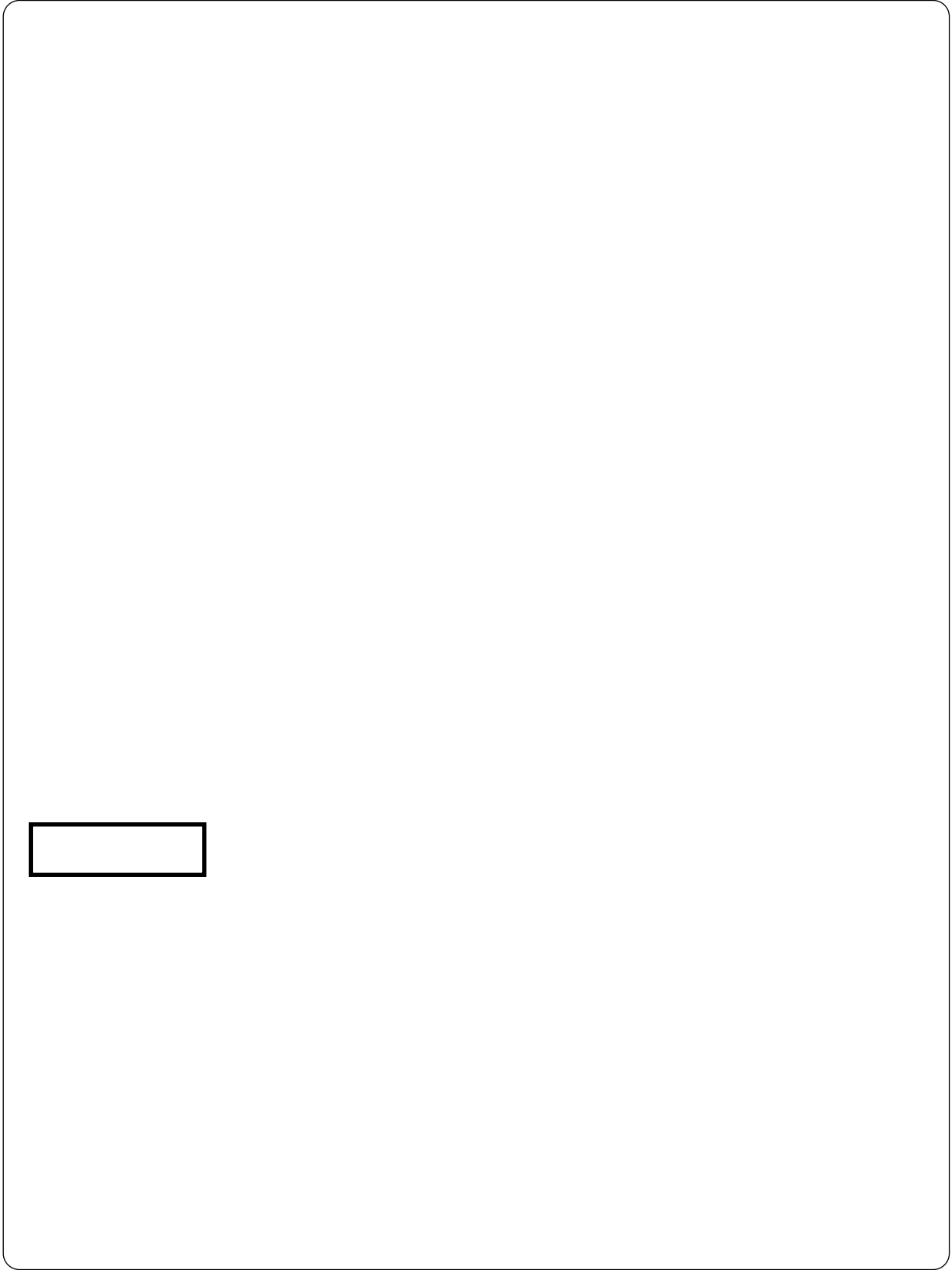
Vol.2

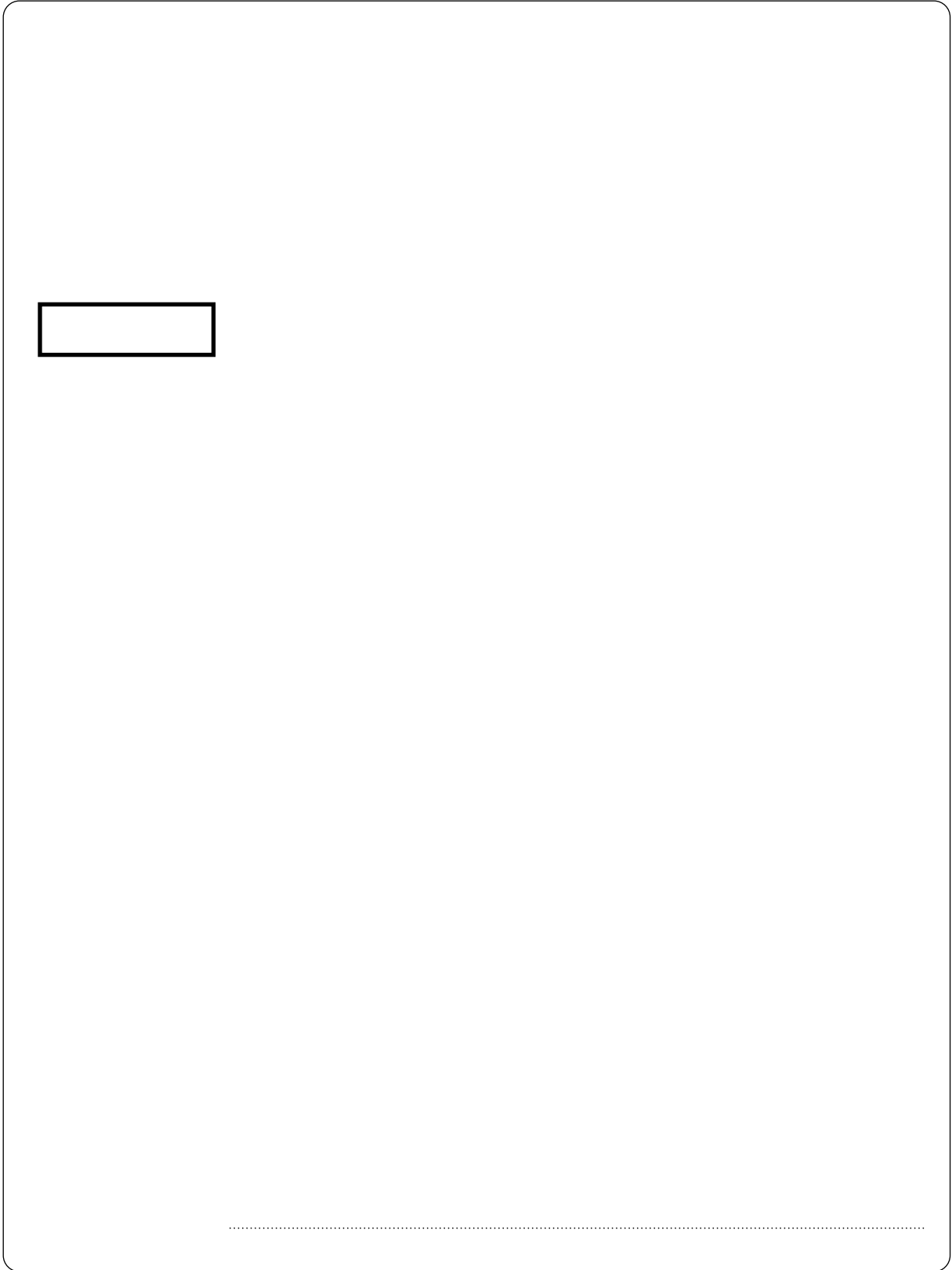
**Read this manual before using the equipment.
Keep this manual with the equipment.**

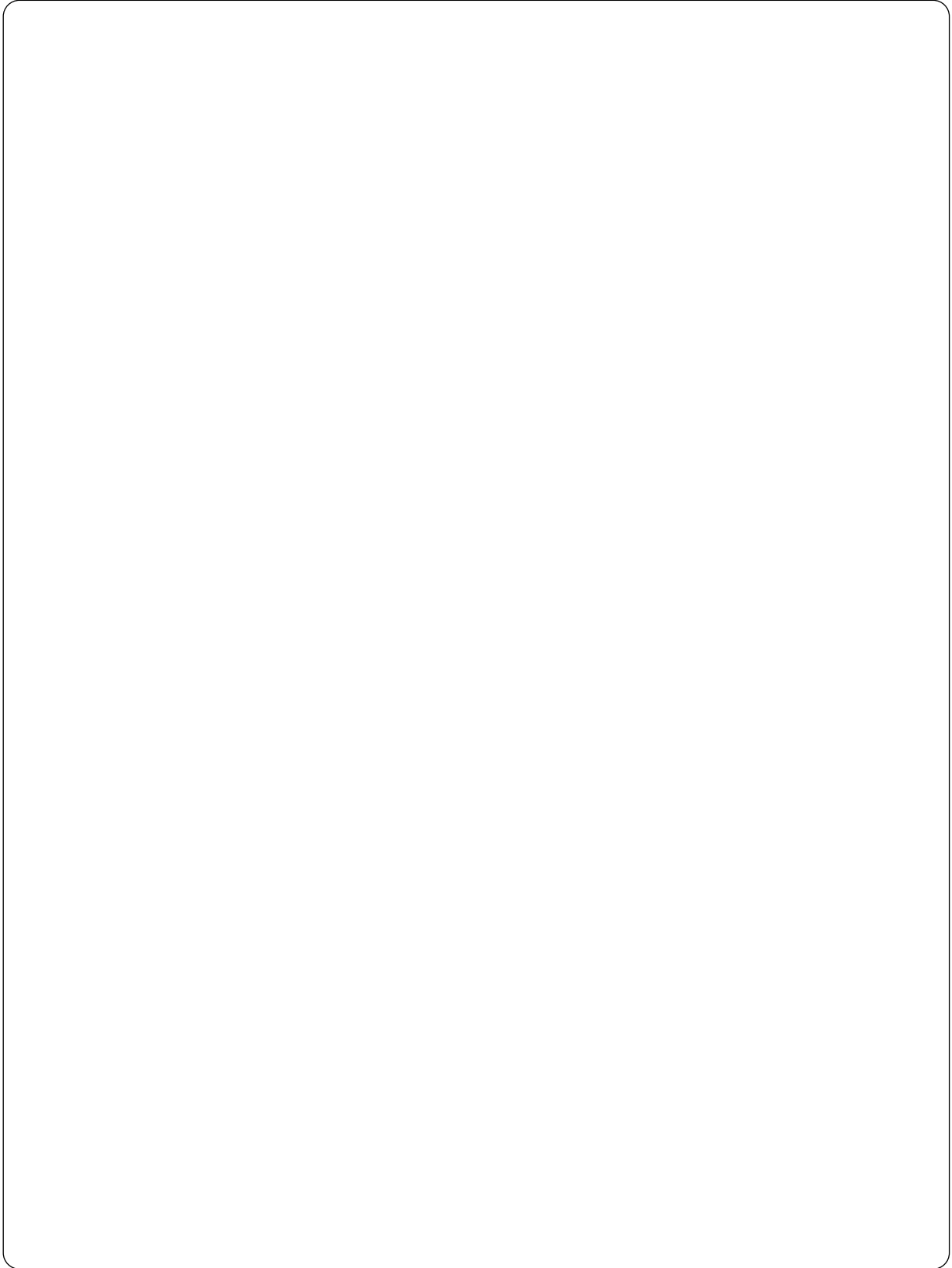


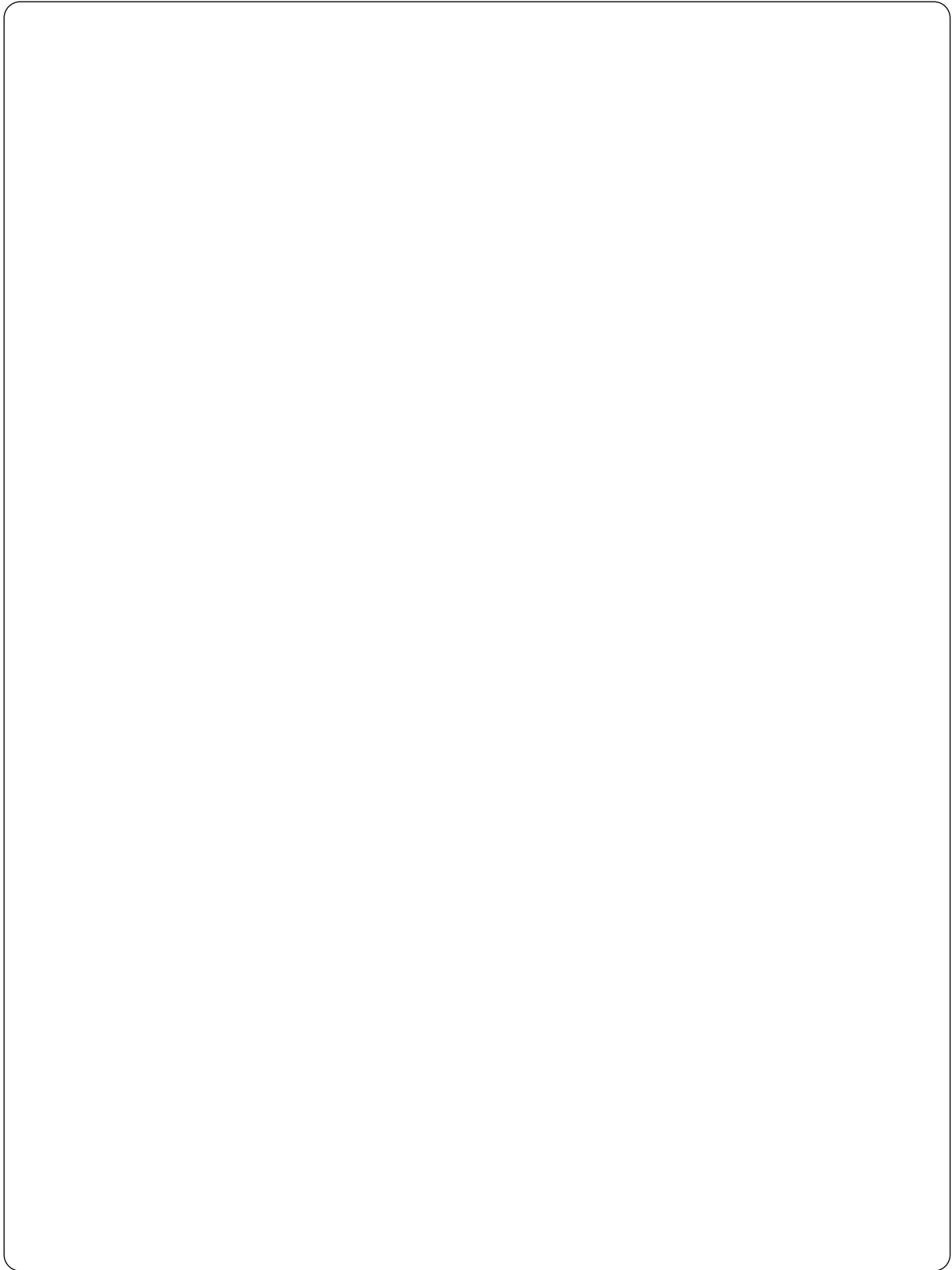
IFR Americas, Inc.



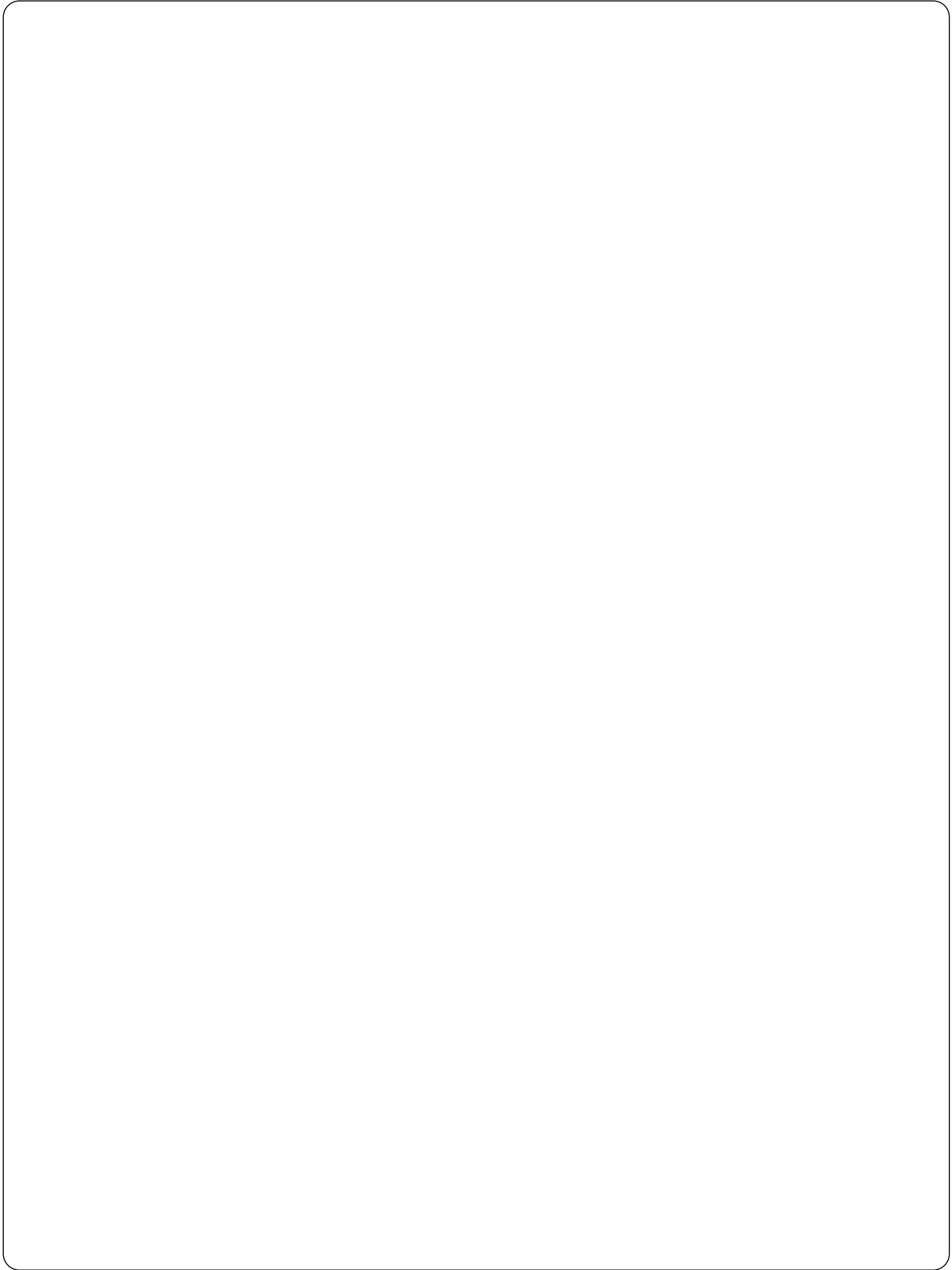


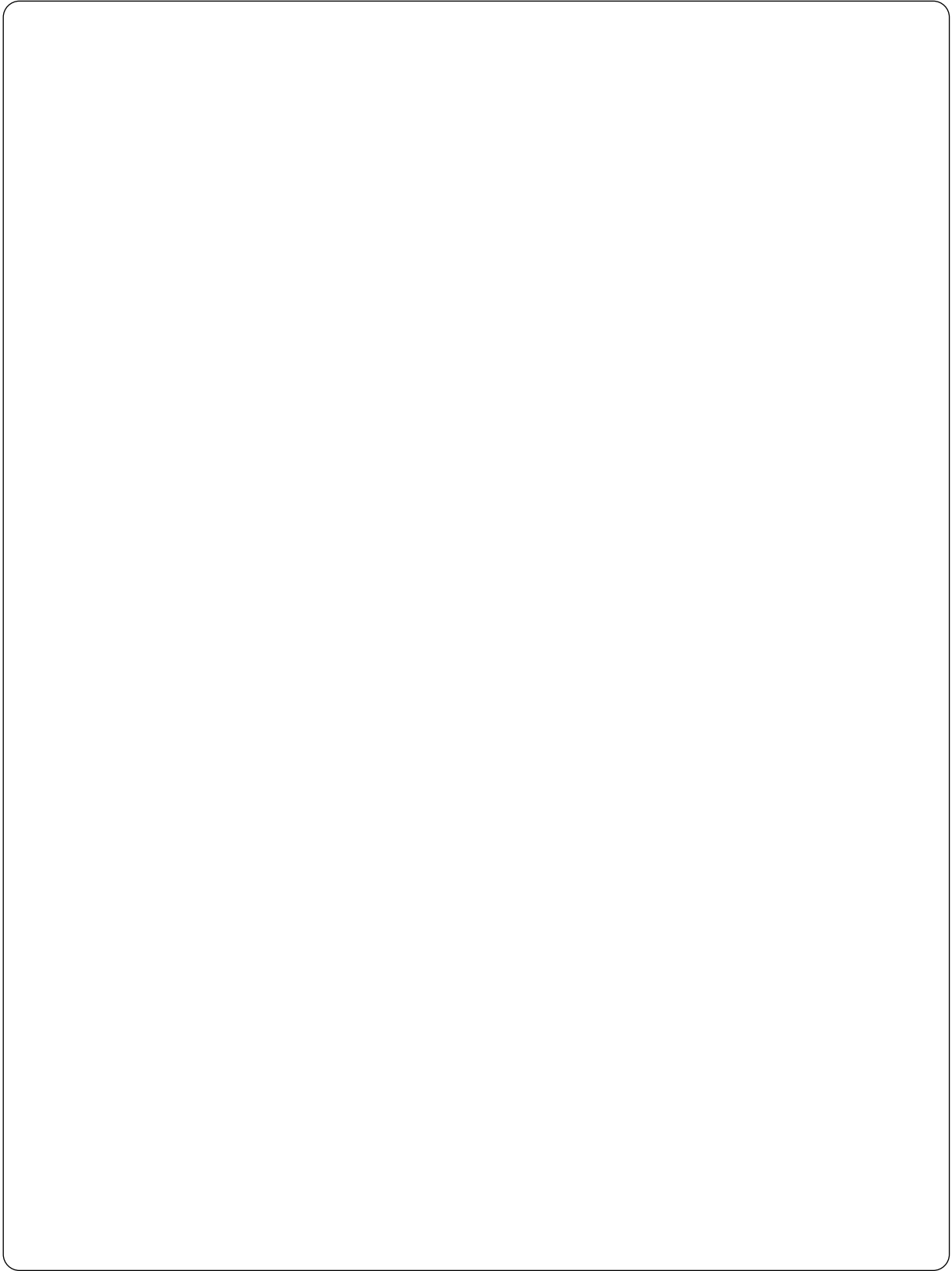
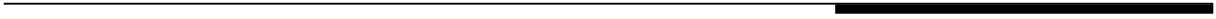






IFR Warranty



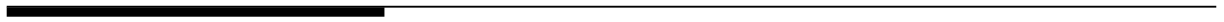


ABOUT THIS MANUAL

(1) Composition of 2398 Manuals

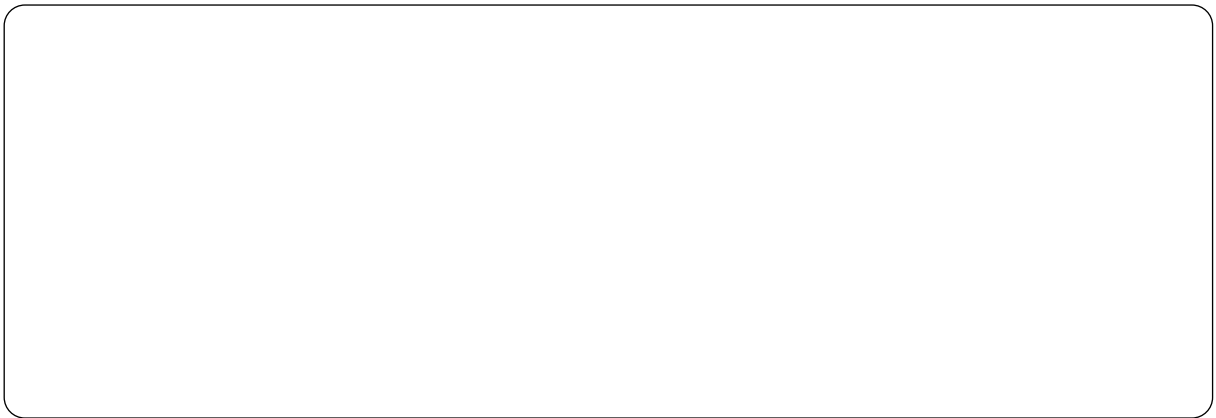
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SECTION 1

GENERAL



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General Description

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Specifications of RS-232C

Specifications of GPIB

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Connecting an external device with an RS-232C cable

Connection diagram of RS-232C interface signals

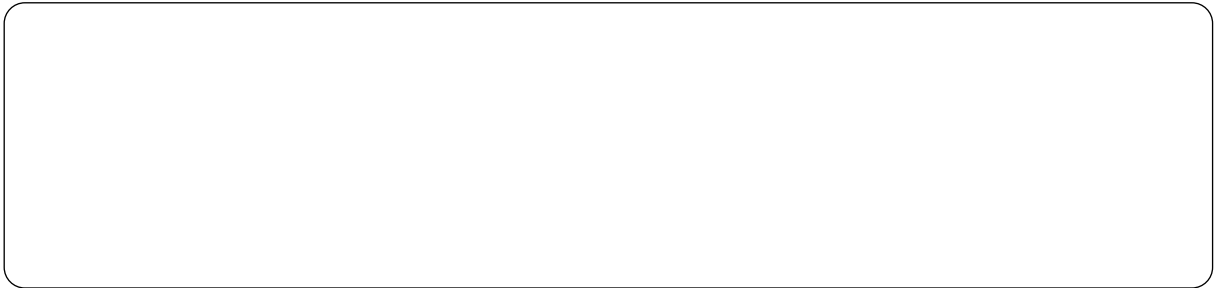
Setting the connection port interfaces

Setting the RS-232C interface conditions

Connecting a device with a GPIB cable & requirements

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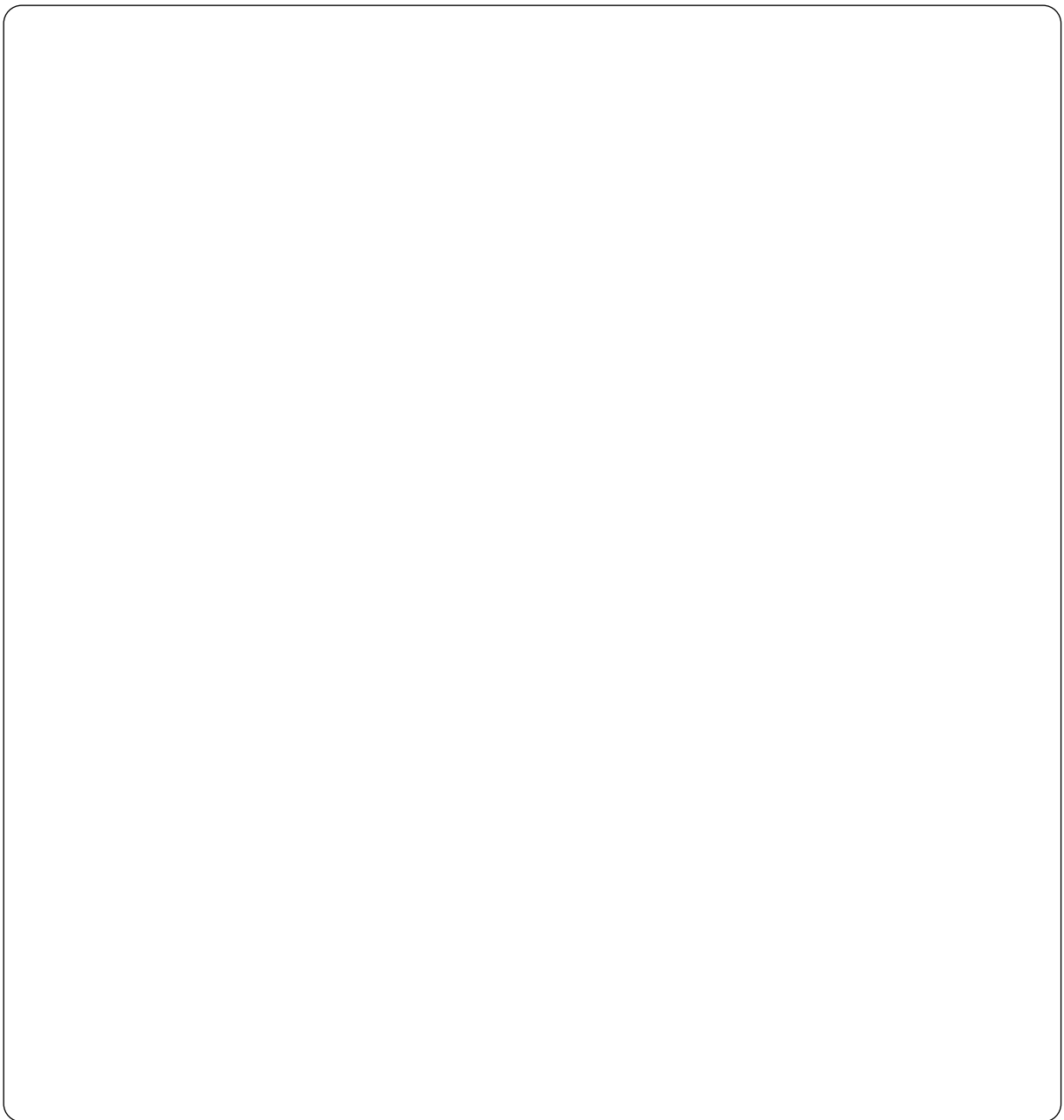


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SECTION 4

DETAILED DESCRIPTION OF COMMANDS







FREQUENCY

CF
CF

Center Frequency

FA
FA

Start Frequency

FB
FB

Stop Frequency

SS
SS

Center Frequency Step Size

SPAN

SP
SP

Frequency Span

FS
FS

Full Span

ZI
ZI

Zoom-in

AMPLITUDE

RL

RL

Reference Level

AT
AT

Input Attenuation

LN
LN

Linear Mode

RLO

RLO

Reference Level Offset

MARKER

MKN
MKN

Normal Marker

MKA

MKA

Marker Amplitude

MKTF

MKTF

Read the marker frequency or time

MKPK

MKPK

Peak Search

MKRL

MKRL

Marker to Reference Level

MKSS

MKSS

Marker to Center Frequency Step-size

MKZO

MKZO

Marker Zoom-out

MKNOISE

MKNOISE

Marker Noise

TRIG

TRGSWP

TRGSWP Trigger Sweep

TF
TF

Trigger Filter

TDLY
TDLY

Delay Time

COUPLING

AUTOCP

AUTOCP Auto Coupled

VB
VB

Video Bandwidth

ST
ST

Sweep Time

DISPLAY CONTROL

DL

DL

Display Line

TH
TH

Threshold

TITLE

TITLE

Screen Title Entry

GRAT

GRAT

Graticule On/Off

TRACE FUNCTION

CLEW

CLEW

Clear Write

MXMH

MXMH

Maximum Hold

TRA / TRB

TRA / TRB Trace Data Input / Output

TRAALL / TRBALL

TRAALL/TRBALL Trace All Data Output

TDF
TDF

Trace Data Format

MATHEMATIC

AMB

AMB

Trace A Minus Trace B

APB

APB

Trace A Plus Trace B

AXB

AXB

Trace A Exchange Trace B

DETECT MODE

DET
DET

Detection Mode

AVERAGE

AVG

AVG

Trace Average

AVGCYL

AVGCYL

Average Cycle On or Off

AUTOSET

AUTOSET

AUTOSET

Auto Sets

SAVE

SVS
SVS

Save State into Internal Register

SVTRA

SVTRA

Save Trace A into Internal Register

SVTRB

SVTRB

Save Trace B into Internal Register

SVLMT

SVLMT

Save Mask data into Internal Register

SVLCK

SVLCK

Save Lock on or off

RECALL

RCS

RCS

Recall State from Internal Register

RCTRB

RCTRB

Recall Trace B from Internal Register

RCM

RCM

Recall Data from Memory Card

LIMIT

LMTPC

LMTPC

Limit Line Function On / Off

LMTUP

LMTUP

Limit Line Upper Area On / Off

LMTUPD / LMTLWD

LMTUPD/LMTLWD Upper / Lower Limit Line Data Input / Output

WINDOW

WIN

WIN

Window Function On / Off

WINLW

WINLW

Lower Window

WINLZ

WINLZ

Window lower Zoom-in

MEASUREMENT

dB Down

XDBDW

XDBDW

X dB Down

XDBRW

XDBRW

X dB Right Down

XDBSGL

XDBSGL

Single Sweep and X dB Measurement

XDBRF

XDBRF

Return Frequency result of the X dB Measurement

Occupied Power Bandwidth Measurement

OBW

OBW

Occupied power BandWidth Measurement

Channel Power

CHP

CHP Channel Power

CHPCB

CHPCB

Channel Bandwidth in Channel Power

Adjacent Channel Power

ACP

ACP

Adjacent Channel Power Ratio

ACPL

ACPL

Lower Channel Power Ratio in ACP

ACPCB

ACPCB

Channel Bandwidth in ACP

ACPSP

ACPSP

Channel Space in ACP

Quasi Peak Mode (Option)

QPM

QPM

Quasi Peak Mode

Frequency Counter

MKFC

MKFC

Frequency Counter

AUXILIARY

DEMOD

DEMOM

Demodulation

AUDIOVR

AUDIOVR

Speaker Volume

PRESET

PRST

PRST

Preset

PCAL

PCAL

Temperature Calibrations Executions On or Off

RCAL

RCAL

RBW Calibration

LVLC

LVLC

Level Calibration

CALSIG

CALSIG

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HCOPY

HCOPY

Hard Copy

CLOCK SET

DATE

DATE

Date

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PCMCHK

PCMCHK

PCMCIA Check

REFERENCE CLOCK

REFLO

REFLO

Reference Clock

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ESE2

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QRYTYP

QRYTYP

Query Response Type

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TGEN

TGEN

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TGNORM

TGNORM

Tracking Generator Normalize

TGMFC
TGMFC

Tracking Generator Manual Frequency Calibration

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STATUS STRUCTURE



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**SECTION 5
STATUS STRUCTURE**

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Reading and clearing the STB register.

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Reading, writing, and clearing the Standard Event Status Register

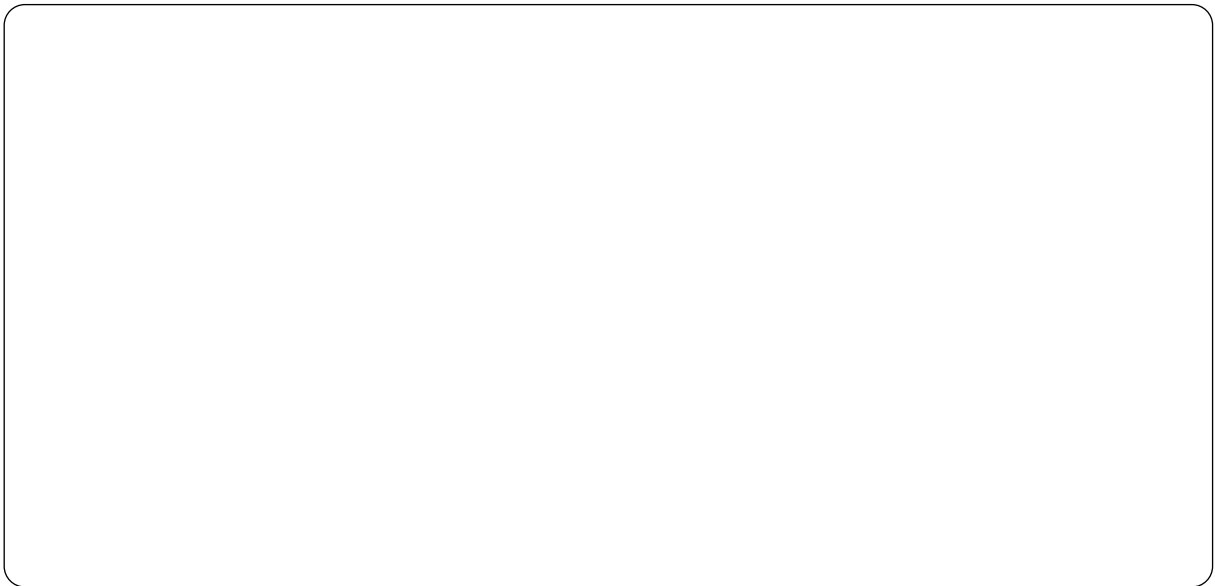
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Bit definition of END Event Status Register

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