When you set things up, run the lamp while looking at the raw output in counts while the software is in Scope mode. It is probably flat-topped at 65536. If so, than this can be fixed.

Access the Setup dialog box at upper left, and choose a smaller value for Integration time; probably 10 mSec. I hope this does it.

However, if your illuminator really exceeds 100 microW/cm2 nm, getting a reading on the computer display in the irradiance mode is a challenge (although you can export the measurement to Excel accurately even if it exceeds the display full scale. If you have to change the display max default, this is the method:

There are two files in the software package which are unique to each instrument: ILIrrad.cal and SM32pro.ini
The SM32pro.ini file is text and contains the setup parameters that you want to change.

To access this file, you need to navigate down to the file folder in the Windows Programs folder containing it. A typical path would be (assuming the main hard drive is C:)

C:\Program Files\International Light, Inc\SpectrILight\SM32pro.ini

The contents of the SM32pro.ini file looks like:

[Options]
Ver=2.828

[Extend Options]
Board=USB
TimeAV=10
BinningAV=0
FFT=0
IntTime=100
IntervalWL=1.00
StartWL=220.00
EndWL=1050.00
Device=1
Channel=0
Gain=2
ADRange=1
ColorTemp=3000.00
Title=RPS900-R 1 cm2 Aperture
SubTitle=SM240IM0P1974-EU
BadPixels=39 166
NoiseRatio=4.00
NoiseLine=0.50
InitSet=537505925
NoiseCutoff=2
CalNo=1
Base=768
InitColor=2
RefWhite=100.00
InitPane=12

Priority=1
IrradDist=100
PixelFlip=0
InitOption=3
PixelColor=255
TransColor=9109504
AbsorbColor=37632
IrradColor=8519755
BackColor=14745599
NoiseHighLow=0
MaxA=5.0
MaxI=100.0

[Hg-Ar Line]
LineCount=38
Line 1=1849.5
Line 2=2536.5
Line 3=2967.3
Line 4=3021.5
Line 5=3131.6
Line 6=3341.5
Line 7=3650.1
Line 8=4046.6
Line 9=4077.8
Line 10=4358.4
Line 11=5460.8
Line 12=5769.6
Line 13=5780.2
Line 14=5790.7
Line 15=6965.4
Line 16=7067.2
Line 17=7147.0
Line 18=7272.9
Line 19=7384.0
Line 20=7503.9
Line 21=7514.7
Line 22=7635.1
Line 23=7724.0
Line 24=7948.2
Line 25=8006.2
Line 26=8014.8
Line 27=8103.7
Line 28=8115.3
Line 29=8264.5
Line 30=8406.2
Line 31=8424.6
Line 32=8521.4
Line 33=8667.9
Line 34=9123.0
Line 35=9224.5
Line 36=9354.2
Line 37=9657.8
Line 38=9764.5

[SM240]
NI=6023
Pixel=2080

Timer=252
BulkOrIso=0
MinIntTime=1

[SM250]
Interface=PPI
Base=0x378
Reg_Offset=0x00
PP_Repeat=1
Cable=SHORT
Data_Bits=16
Sensor=CCD
Mode=0x8
Test=0x6
Shutter_Speed=dual
Shutter_Bits=0x08
MaxBinX=8
MaxBinY=63
Guider_Relays=True
Columns=688
Rows=513
Imgcols=659
Imgrows=494
BIC=16
BIR=16
HFlush=8
VFlush=50
SkipC=4
SkipR=2
hbin=1
vbin=63
Control=True
Target=-10.00
Cal=165
Scale=2.1
sensor = ICX084AL
Color=False
Noise = 10
Gain = 2
PixelXSize = 7.4
PixelYSize = 7.4

[SM260]
ComPort=0
Speed=2400
Parity=2
DataBit=8
StopBit=0
FlowControl=0

[SM301]
TempCal=200
TempCal0=-3.811798337914
TempCal1=3462.920020089
TempCal2=-20698.96463541
TempCal3=-8267379.296770
OffVolt=0.7

Gain=2
Pixel=256
TEC=1
CAP=2

[Factory Default]
Date=04/08/2005 08:07:51
Name=240-IMOP1974-EU
PointCount=9
Data 1=2537;242
Data 2=3132;359
Data 3=3650;461
Data 4=4047;538
Data 5=4358;597
Data 6=5461;805
Data 7=6965;1082
Data 8=7635;1203
Data 9=8115;1289
BaseAddress=768
IntegrationTime=35

[Cal 1]
Date=04/08/2005 08:07:51
Name=240-IMOP1974-EU
PointCount=9
Data 1=2537;242
Data 2=3132;359
Data 3=3650;461
Data 4=4047;538
Data 5=4358;597
Data 6=5461;805
Data 7=6965;1082
Data 8=7635;1203
Data 9=8115;1289
BaseAddress=768
IntegrationTime=35

[Print Page]
Organization=International Light
Operator=L. E. Schmutz
Sample=1 kW QTH at 100 cm, 14 sec total scan

At the bottom of the first batch of parameters in this list is the line:

MaxI=100.0

This sets the Maximum Irradiance to 100.0 microWatts/cm2 nm .

To increase the full scale default, just change this to your desired
maximum, say:

MaxI=500.0

and save the file.

Now, when you switch to Irradiance mode, the window will open up to 500 microWatts/cm2 nm full scale.

By the way, even if you have data going above the max in the viewing window, if you use the Export button to send the data to a text or Excel file, the data will not be truncated or otherwise adversely affected by the display parameters. (It will, however, export only the wavelength region set by the software).